INSTRUMENTATION

AND DATA ACQUISITION MAMUAL

VOLUME II - SHIP 1 INSTRUMENTATION

(NASA-CK-106548) V/SICL TILI BOICH RESEARCH ALFCRAFI. VOLUME 2: SHIF 1 INSTRUMENTATION

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V/STOL TILT ROTOR RESEARCH AIRCRAFT

301-099-022



Bell Helicopter TEXTRON

Division of Textron Inc.

POST OFFICE BOX 482 . FURT WORTH, TEXAS 76101



VOLUME II - SHIP NO. 1 RESEARCH INSTRUMENTATION

This volume contains information covering sensor cables, sensor installation and sensor calibration for XV-15 Aircraft No. 1. The information contained herein is organized into sections according to junction box (J-box) designation. For each J-box designation, there is a section containing a schematic of the J-box disconnect harness, instrumentation worksheets which show sensor installation, and calibration data sheets for each sensor associated with that J-box.

An index of measurement item codes to J-box location is given in Table II-I. A cross-reference of sensor location, J-box designation, disconnect wiring harness diagram, sensor installation worksheet, calibration data sheet, sensor part number and serial number is given in Table II-II.

Use or disclosure of data on this page is subject to the restriction on the title page

TABLE II-I. ITEM CODE TO J-BOX INDEX.

MEASUREMENT			ASSOCIATED	J-BOX
ITEM CODE	MEASUREMENT	DESCRIPTION	J-BOX	DISCONNECT
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ERENCE.	CALIBRATION SHEET	
MENT CROSS-REFERENCE.	SENSOR INSTALLATION	
II-II. MEASUREMENT	DISCONNECT HARNESS	
	CODE	
TABLE	DESCRIPTION	
	J-BOX	
	AREA	

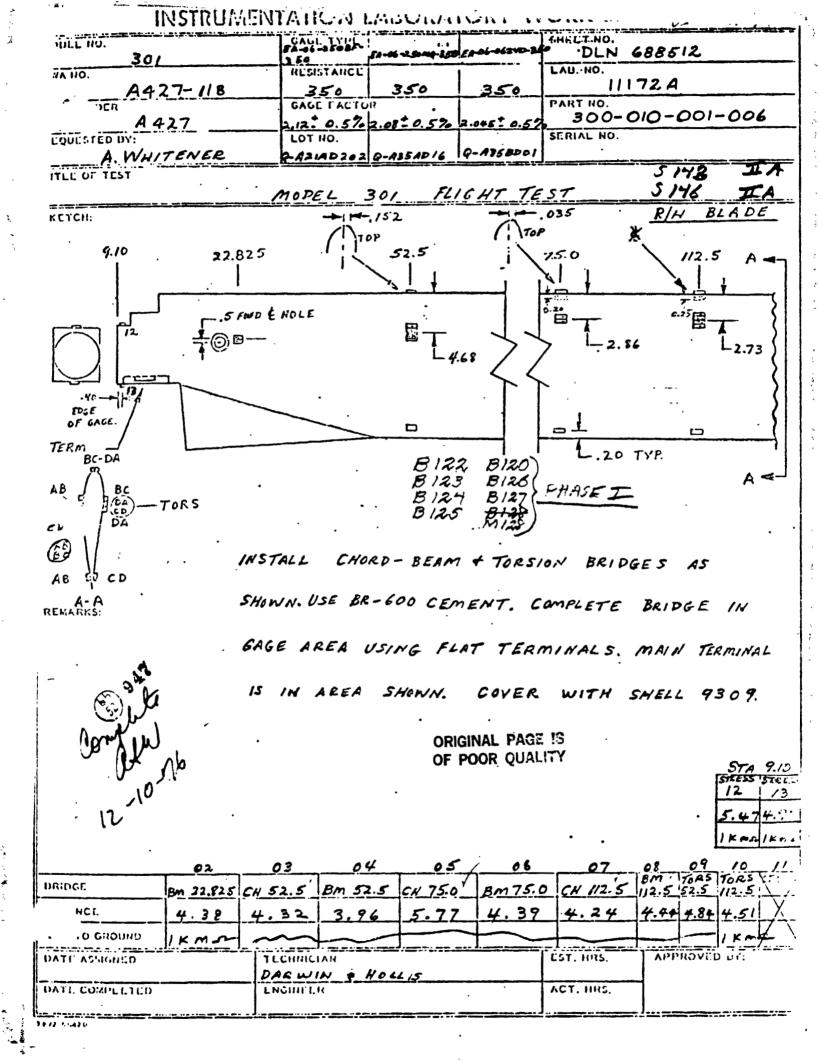
Use or disclosure of data on this page is subject to the restriction on the title page

MODEL 301 A. WHITEHER HELL 1+2 RPT SMASWOAI-1 Hu CHECKED . NO ITEM CODE NO. B 113 B122 MODEL 301 F103 B 123 ROTATING SLIP RING HARNESS (J-1) B124 B125 DILI 5145 5146 B12C RR-1 M129 8126 ORIGINAL PAGE IS E072 B127 R018 OF POOR QUALITY M128 -K PT06-22-55P RC53 8112 + VOLTAGE MA-101-22. MK-107-22 . - VOLTAGE MK-105-22 MR-109-28. VOLT SENSE ML-105-22 -A14-106 - 2 2 A RED BLADE BM STA 22.8 MR - 167 - 22 WE-168-32 52.5 -115-22 75.0 PLUG **⑥** Bn 112,5 -114-22 Œ Cu 52.5 75.0 -117- 22 MR -116-22 6 CH 112.5 MP. -114-23-0N MR -120 27 -**(4)** Toea 52 -X MR -122 - 22. Tong Sia 112.5 SLIP ME - 121-22 F) MP. - 129-22 -Steers L.E. Sta 95 MR-125-22 MR-120-12 -(K) STRESS TE. STA 9.5 RING M.C. -127-12 MK-125.22 BLADE FEATHERING POS M. R. - 174-22 mR . 123-22 Θ the Soluble BM HR-131-22 MM-122-22 MY HUB SPINDECH MR -122-22 MK-124-12 -PRESPITCH LINK ME. 125-22 WR - 127 - 72 -131-22 -4512+1/200 POWER MK - 121 - 12 ME - 100 -22. -11c . 14: . 22 -MC-147-22-US 3104-145-55 M4-5 SEE SHEET # Z FOR REMAINDER OF WIRES

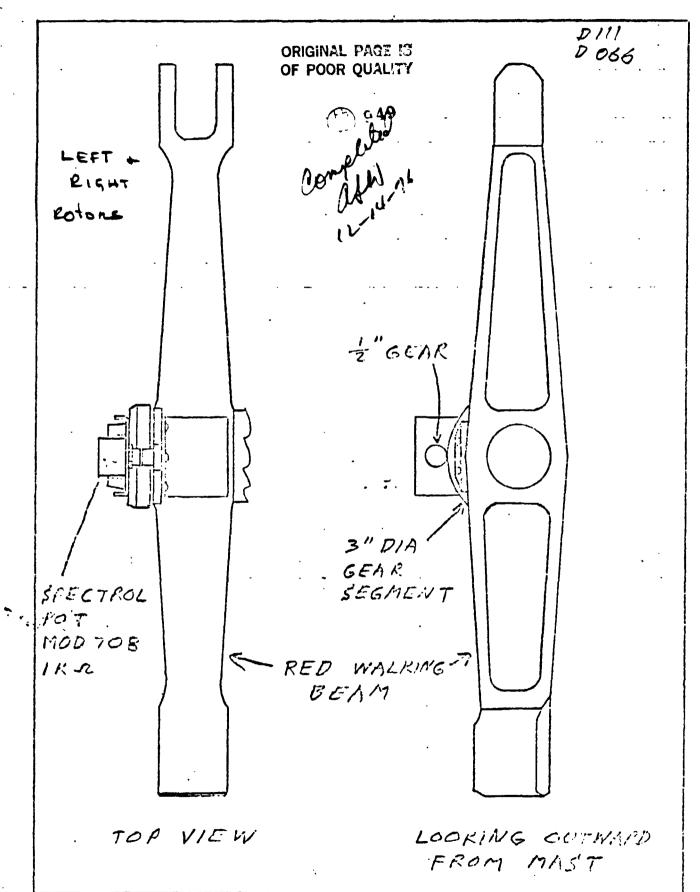
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	BY A. WHITE		BELL HELICOPTER co		MODEL 301	FAGE	
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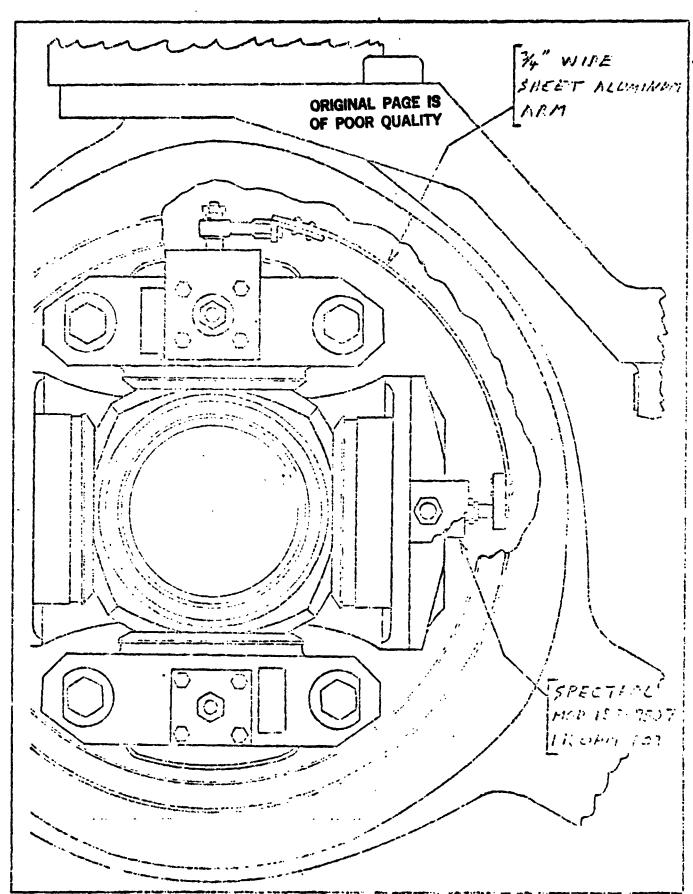
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301 RED BLADE FEATHERING POSITION ERACKET



301 ROTOR GIMBAL TRUNNION FLAPPING POSITION



the contract of the second sec	The same of the sa	
INSTRUMER	MION LABORATORY W	ORK SHEET
MODILL NO.	EA-13-125 TB-350W	DLN 678964
-WA NO. A427-11A	RESISTANCE 350.0 -0.4%	LAD. NO. 10988A
SRUER A427	GAGE FACTOR 2.12 -1.000	PART NO. 300-010-4-11-11
REQUESTED BY: A. WHITENER	LOT NO. O - AIBAF 56	SERIAL NO.
TITLE OF TEST	301 FLIGHT TEST	
SKETCH:		F103
	<u>.</u>	PITCH LINK
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REMARKS:

INSTALL AXIAL BRIDGE AS SHOVYN. USE BR-600 CEMENT.

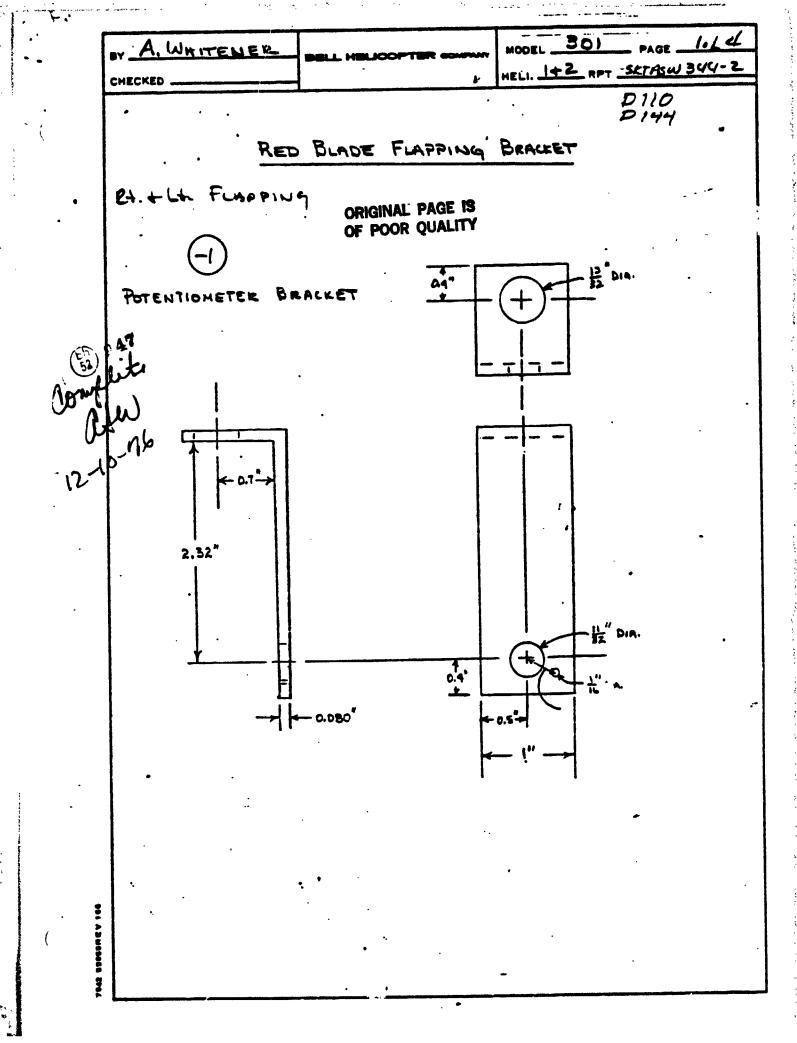
MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

COVER WITH 9309. ATTACH FOUR WIRE SIX

INCH SUPERFLEX LEADS, ENCASE LEADS IN VINYL

SLEEVING AND TERMINATE WITH M4P PLUG.

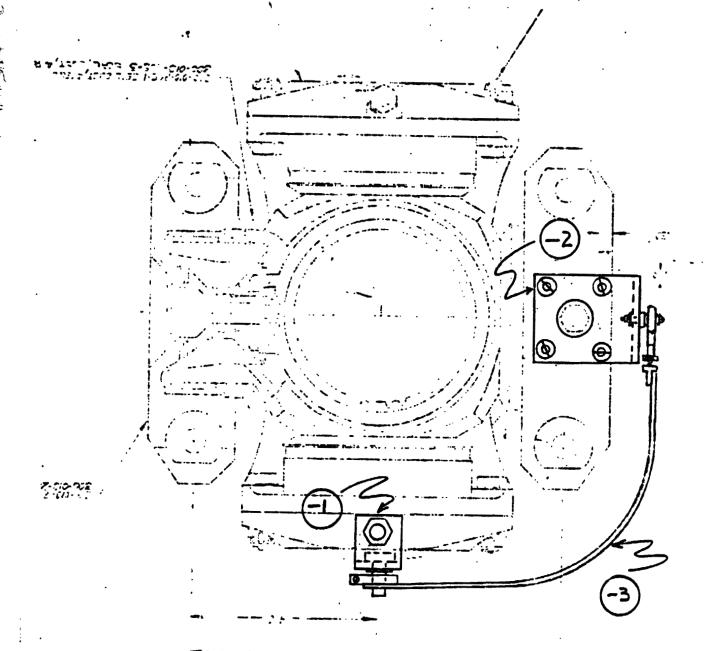
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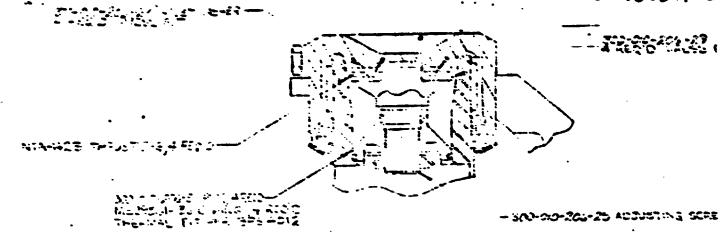


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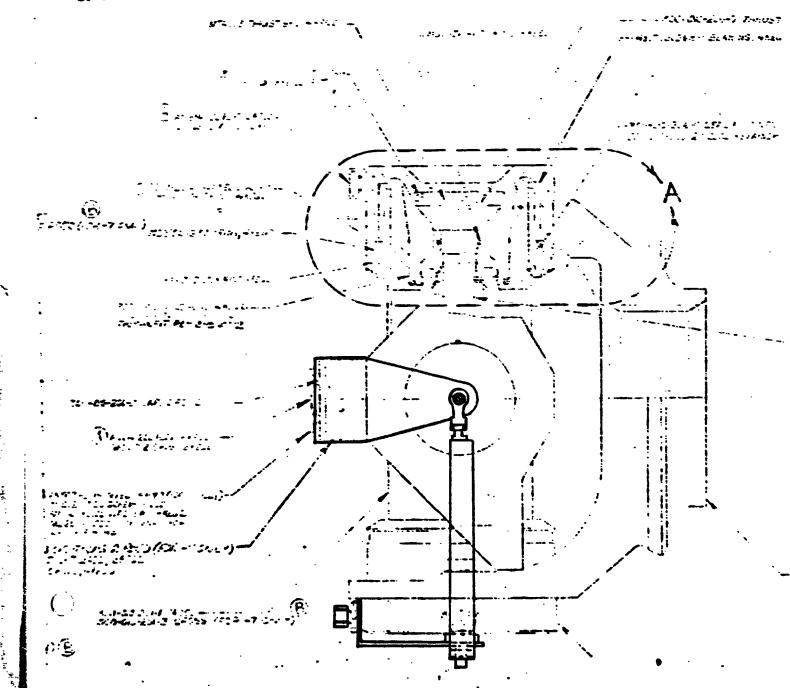
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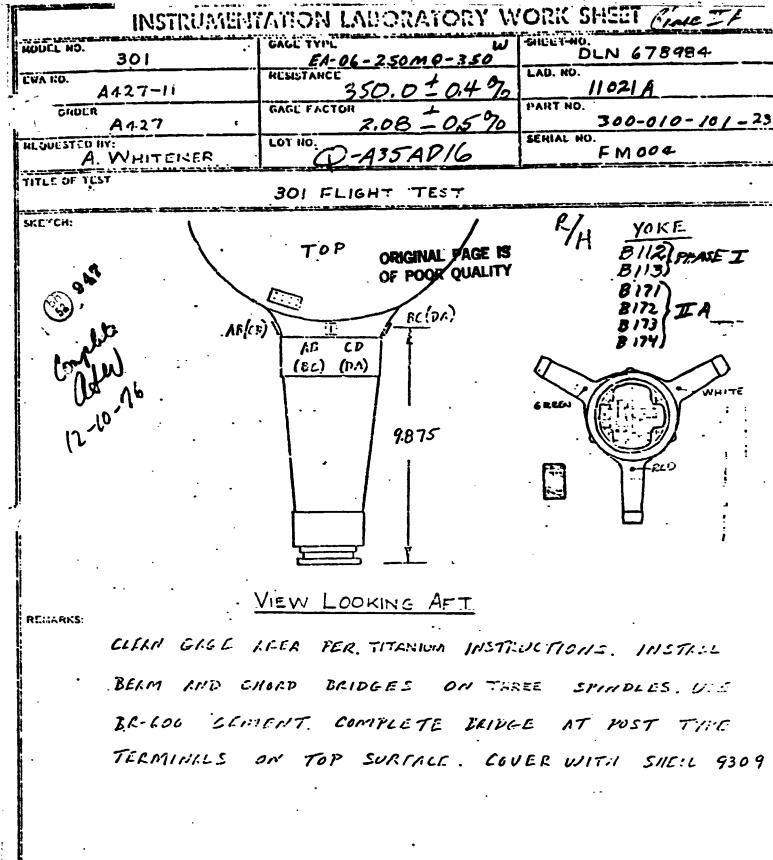
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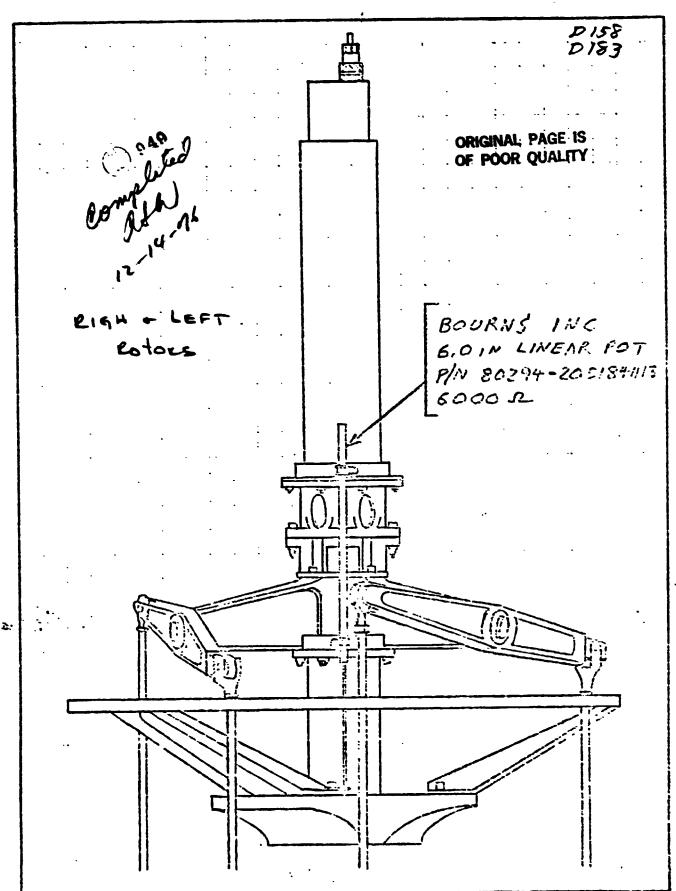
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301 COLLECTIVE ACTUATOR POSITION POT



INSTRUMENTATION LABORATORY WORK SHEET MODEL NO. 678984 301 EA-PK-250MQ-350 EA-DL-062VD-350 EWA NO. 3500 10495 YORK ORDER GAGE FACTOR PART NO. 3.045 T D 5% 2.08=0.500 A 427 300-040-180 SERIAL NO. REQUESTED BY: D. GLASS Q-A35BD01 Q-A35AD 03 TITLE OF TEST Ship# FLISHT SKETCH: MAST MIOT PERP 02(AB)CD TORS OI 46 (SC) (D (DA) OZ (BC)DA ORIGINAL PAGE IS OF POOR QUALITY

REMARKS: INSTALL BENDING AND TORSION BLIDGES AS SHOWN.

USE BR-600 CEMENT. MAKE BRIDGE AT FLAT

TERMINAL AS INDICATED. COVER WITH 9309.

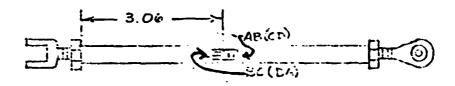
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DATE COMPLETED		ENGINEER	ACT. HR	S.

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INSTRUME	ntation laboratory v	NORK SHEET FOSS /
MODEL NO.	GAGE TYPE EA-13-125 TB-350W	SHEET NO. DLN 675984
A427-114	350 0 ± 0.490	LAB. NO. 10630 A
K ORDER A427	GAGE FACTOR RILZ ± 1.0%	PART NO. 200-010-411-11
REQUESTED BY: A VISITEINER	LOT NO. Q-A18 AF 48	SERIAL NO.
TITLE OF TEST	301 FLIGHT TEST	

SKETCH

PITCH LINK



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REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

COVER WITH 9309. ATTACH FOUR WIRE SIX

INCH SUPERFLEX LEADS, ENCASE LEADS IN VINYL

SLLEVING AND TERMINATE WITH MAP PLUG.

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BRIDGE	AYIAL						
LANCE	4.10		·				
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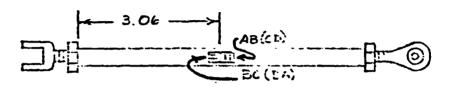
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INSTRUMENTATION LABORATORY WORK SHEET Flog MODEL HO. GAGE TYPE SHEET NO. EA-13-125TB-350W 301 DLN 678934 "A NO. LAB. NO. A427-11A 10627A WUNK ORDER GAGE FACTOR PART NO. A437 300-010-4-11-11 REQUESTED SY: LOT NO. SERIAL NO. A WHITEHER TITLE OF TEST

301 FLIGHT TEST

SKETCH:

PITCH LINK



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REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

COVER WITH 9309. ATTACH FOUR WIRE SIX

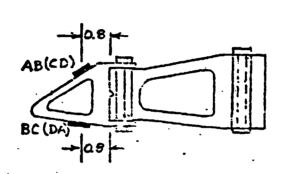
INCH SUPERFIEX LEADS, ENCASE LEADS IN VINYL

SLEEVING AND TERMINATE WITH MAP PLUS.

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BRIDGE	AXIAL				T
LANCE ,	4,17				
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DATE ASSIGNED 2 - /	12-16	TECHNICIAN C.C.W -	•	EST. HRS.	APPROVED ST:
DATE COMPLETED	-25	ENGINEER		: ACT. HRS.	7

INSTRUMENTATION LABORATOR : WORK SILLI EA-13-250MQ-350 301 DLN 679784 RESISTANCE EWA NO. 3502 ± 0.4% A-27-11A 10435A 2.11 ± 0.5% PART NO. ORDER 11427 300-010-481-1 SERIAL NO. REQUESTED BY: LOT NO. Q-A18AF 56 A. Y'smine TITLE OF TEST 301 FLIGHT TEST B 052 SKETCH: DRIVER A55% ORIGINAL PAGE IS OF POOR QUALITY

Jones My P



REMARKS:

INSTALL BEND. ERIDGE AS SHOWN. USE BR-600 CLINEHT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED. COVER
WITH 9309. ATTACH FOUR WIRE SIX INCH SUPERFLEX.

LEADS. ENCASE LEADS IN VINYL SLEEVING AND
TERMINATE WITH MAP PLUG.

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BRIDGE	BEND						
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DATE ASSIGNED		TECHNICIAN	in	<u> </u>	 EST, HRS.	APPROVE	D EY:
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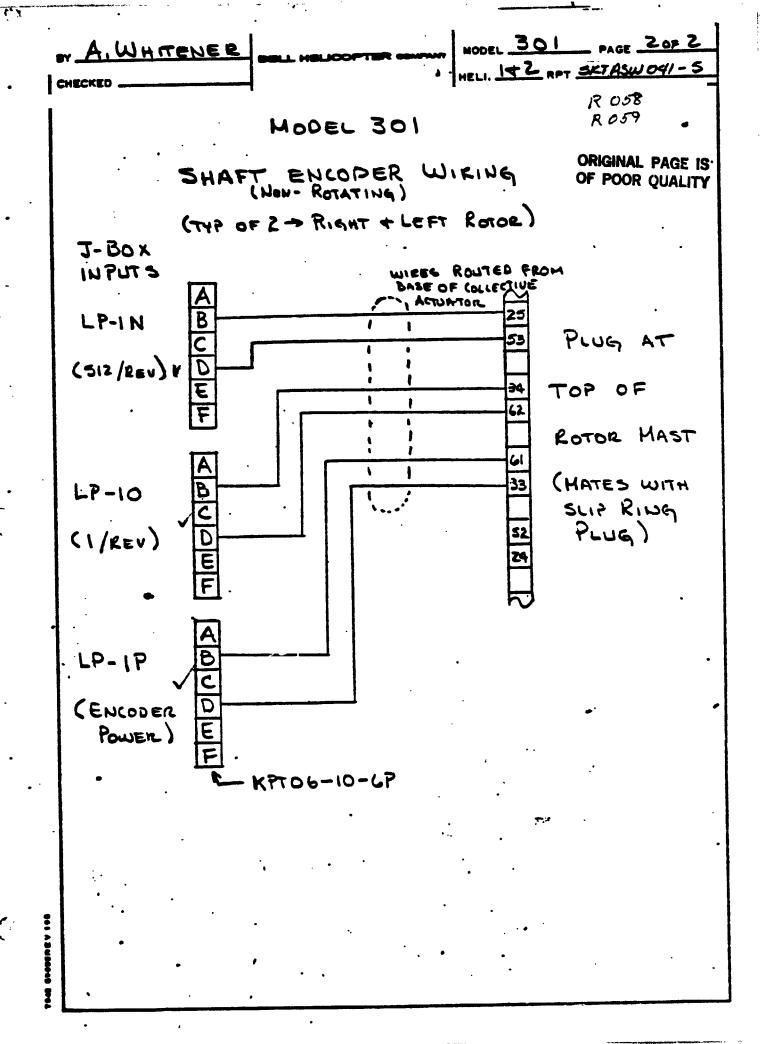
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MODEL 301 WHITENER HELI. 142 RPT SKTASWOGI-S R018 R053 MODEL 301 SHAFT ENCOPER WIKING **ORIGINAL PAGE IS** OF POOR QUALITY (TYP OF 2 - RIGHT + LEFT ROTOR) J-Box INPUTS ICEG ROUTED FROM ACTUATOR RP-IN PLUG AT (512/REV) TOP OF ROTOR MAST HATES WITH RP-10 SLIP RING PLUG) (1/REV) RP-1P (ENCODER POWER) KPT06-10-6P



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00	RIGINAL PAGE IS No.		MODEL 301 POTATING SUP RI	2)	Rev. A 12-8- DOC- ARNESS RO18 RO53 RO58 RO59
	compets	A HO G B H G X H X 1 Z	WIRES ROUTED TO SLOT AT BASE () COLLECTIVE ACTUM	70R	_
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MODEL 301 BY A. WHITEHER HELI. 1+2 RPT SETASWO41-4 CHECKED Pev. A 12-4 HODEL 301 Vice-"Nou- ROTATING SLIP RING HARNESS (TYP or 2 → LR-1, RR-1) PAGE IS OF POOR QUALITY Calonia Calonia WIRES ROUTER FLOM SLOT AT BASE OF ı PLUG PLUG 1 LOCATED 75 HOUNTED TA 1 85 ON THE TOP PYLON ROTOR OF 80 65 MAST 70 (MATES WITH SLIP RING 72 PLUG) I 41 EHIKH9733!-1 KPT06-24-61P.

INSTRUME	TAULANUDAL NULLÄLVE	WORK JITET
MODEL NO.	GAGE TYPE EA-06-062TZ-350	SHEET NO. DLN 688512
A427-11B	RESISTANCE 350 n.	LAB. NO
WORK ORDER A427	GAGE FACTOR 2.07 ± 1.07 %	PART NO. 4100 2590
REQUESTED BY: A. WHITENER	Q-A34 BDOO	SERIAL NO.
TITLE OF TEST		

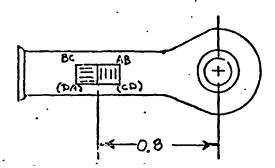
301 FLIGHT TEST

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SKETCH:

R/H LATERAL ACTUATOR



INSTALL AXIAL BRIDGE AS SHOWN ._ USE BR-600 CEMENT. MAKE BRIDGE AT FLAT TERMINAL AS INDICATED. COVER WITH 9309, ATTACH FOUR TEN INCH SUPERFLEX LEADS ... ENCASE LEADS IN VINYL SLEEVING AND TERMINATE WITH KPT-06-8- 4P. PLUG.

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CRIDGE	AXIAL	•			·	
BALANCE	5.28					
פוועפאס פד פייב	10Kins					
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DATE COMPLETED	-14-76	ENGINEER		 ACT, HRS.	• •	

INSTRUMENTATION LABORATORY WORK SHEET MODEL NO. SHEET NO. 301 EA06-125 TE-350 DLN 678754 EWA NO. RESISTANCE LAB. NO. A427-11A : 350 L 10603A GAGE FACTOR. PART NO. A427 ス./3 た 300-010-4!7-1 REQUESTED BY: LOT NO. SERIAL NO. O-AZIADI43 004 A. YYKITENER TITLE OF TEST 301 FLIGHT TEST F164 SKETCH: RIH COLLECTIVE TUEL AB (CD) -BC (DA) ORIGINAL PAGE IS OF POOR QUALITY

REMARKS:

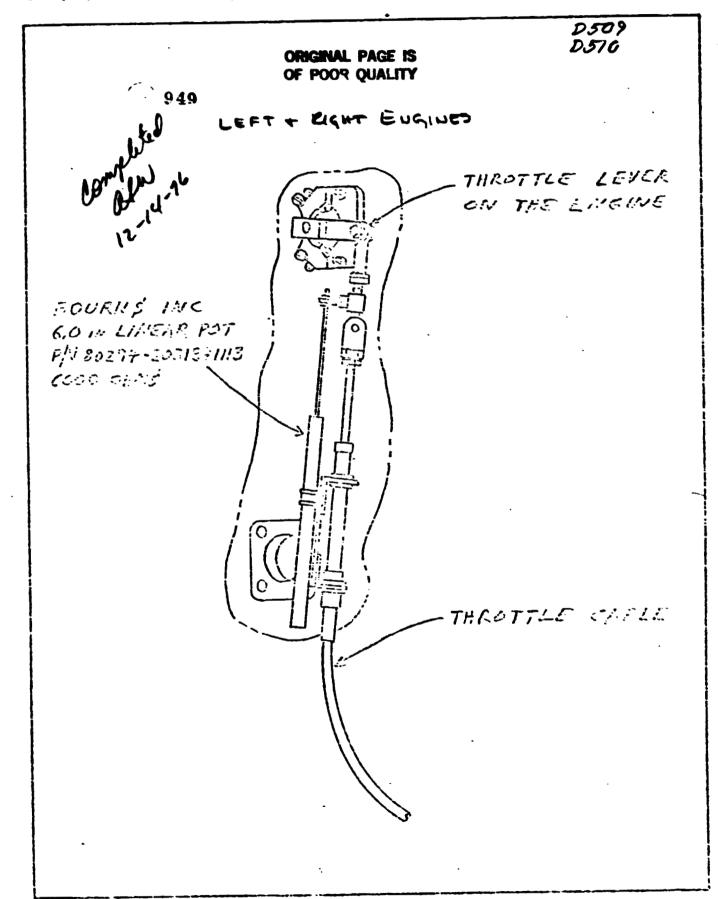
INSTALL AXIAL BRIDGE AS SHOWN, USE BR-600

CEMENT... MAKE BRIDGE AT FLAT TERMINAL AS

INDICATED. COVER WITH SHELL 9309.

DATE COMPLETED	1-76	ENGINEE	•		 ACT. HRS.	_	
DATE ASSIGNED		TECHNIC	C.C.W		EST. HRS.	APPROVED	BY:
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LANCE	3,8.			·			
BRIDGE	AXIAL						
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301 FUEL CONTROL LEVER POSITION BRACKET



D 158 HUB SPRING MOTION BRACKET 0157 . D 181 D 182 DRILL MOUNTING HOLES AT THIS. RADIUS ORIGINAL PAGE IS ien; letad 5.3125 R OF POOR QUALITY 1-11-77 1. L+R LAT HUR SPILING Motions Z. ITR F/A HIE STAR Motion BEND

MATKONE	MANOR LABORATORT F	10101 DITE:
MODEL NO.	GAGE TYPE EA-13-125 TB-350	SHEET HO. DLN 678484
EWA NO. A427-11A	350 J +- 0.4%	LAB. NO. 10639A
K ORJER	GAGE FACTOR 1.0%	PART NO. 301-001-552-1
REQUESTED BY: A. WHITENEY.	LOT NO Q-A /S A-F 48	SERIAL VO.

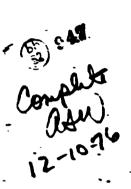
TITLE OF TEST

301 FLIGHT TEST

SKETCH:

F162

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0 H AB (CD)

BC (DA)

REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT. TERMINAL AS INDICATED. COVER

WITH 9309. ATTACH FOUR WIRE SIX INCH SUPERFLEX

LEADS. ENCASE LEADS IN VINIYL ELEEVING AND

TERMINATE WITH MAP PLUG.

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BRIDGE	AYIA:				
ALANCE	4.67				
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DATE ASSIGNED 2-19-76		TECHNICIAN Hillin		EST, HRS.	APPROVED BY:
2-19-76		ENGINEER		ACT. HRS.	7

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MILL HELICOPTER COMPANY

MODEL 301 PAGE 19F1

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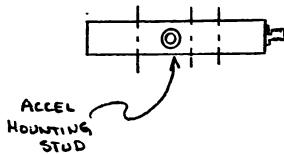
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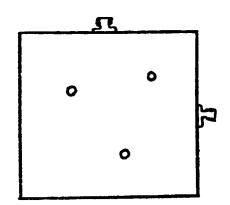
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Deile TO MATCH FITTING

NOTE: USE LYCONIUM DEWG 1-000-040-14
FOR THESE LOCATIONS

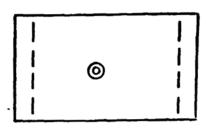
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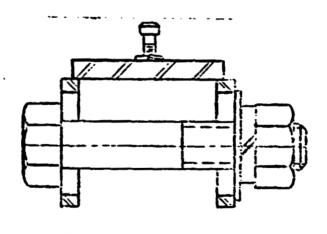
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ORIGINAL PAGE 13 OF POOR QUALITY





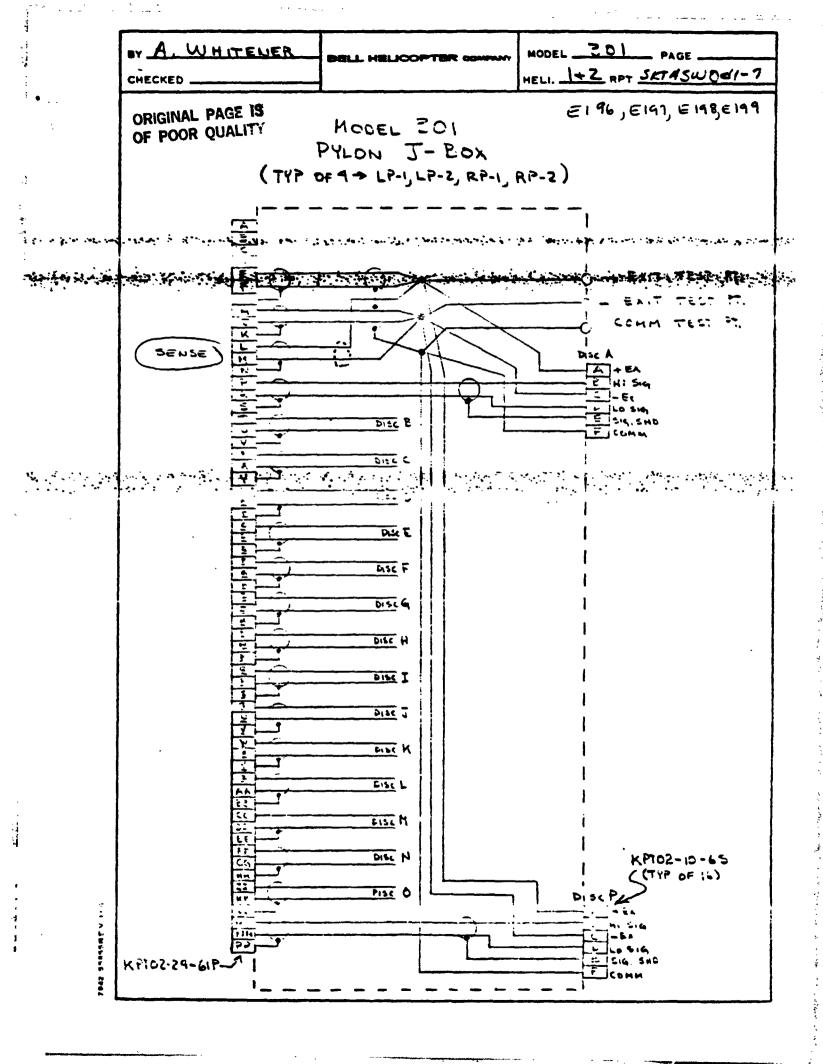


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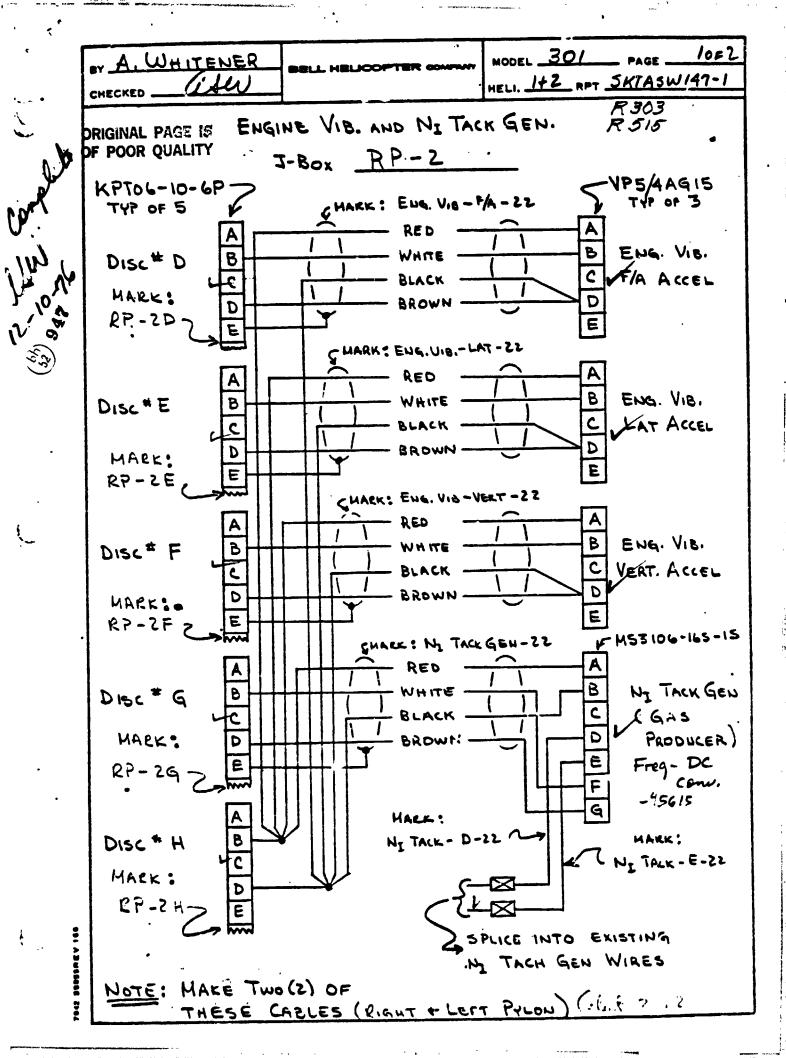
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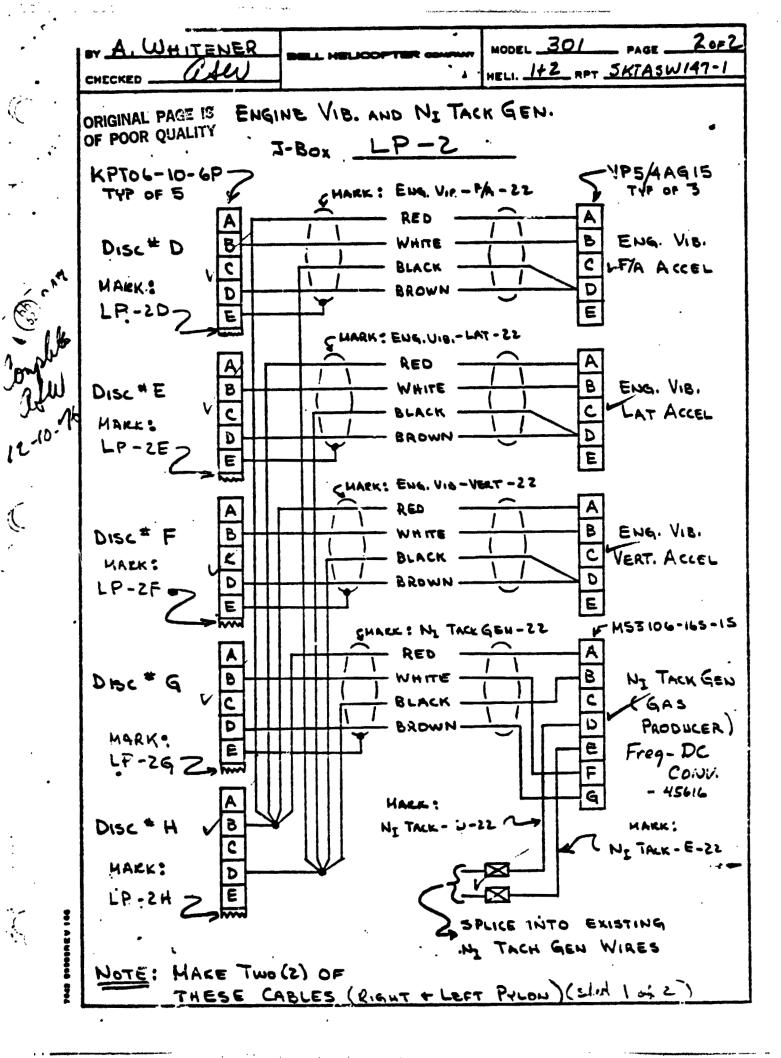
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2.12 +- 1.0%	PART NO. 301-810-934-3
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REMARKS:

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MAKE BRIDGE AT FLAT TERMINAL AS INDICATED. COVER.

WITH 9309. ATTACH FOUR WIRE SIX INCH SUPERFLEX

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TERMINATE WITH MAP PLUG.

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A-727-11A RESISTANCE 350,0±0,470 10623 A ORDER A-27 A-27-11A GAGE FACTOR 7,075±0,570 BHF 50322
ORDER GAGE FACTOR 2,075 ± 0.5 % BHF 50322
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REMARKS:
INSTALL TORSION BRIDGE AS SHOWN. USE BR-600
INSTALL TORSION BRIDGE AS SHOWN, USE BR-600.
CEMENT. MAKE BRIDGE AT FLAT TERMINAL AS
INDICATED. ATTACH FOUR 6 FOOT SUPERFLEX
WIRES. ENCASE WIRES IN VINYL SLEEVING
AND COIL AROUND SHAFT FOR SIX FEVOLUTIONS.
COVER SAGE AREA WITH 9309.
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DATE ASSIGNED TECHNICIAN C.C.W ATTAIN ACT. HRS. APPROVED BY:

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COVER WITH 9309.

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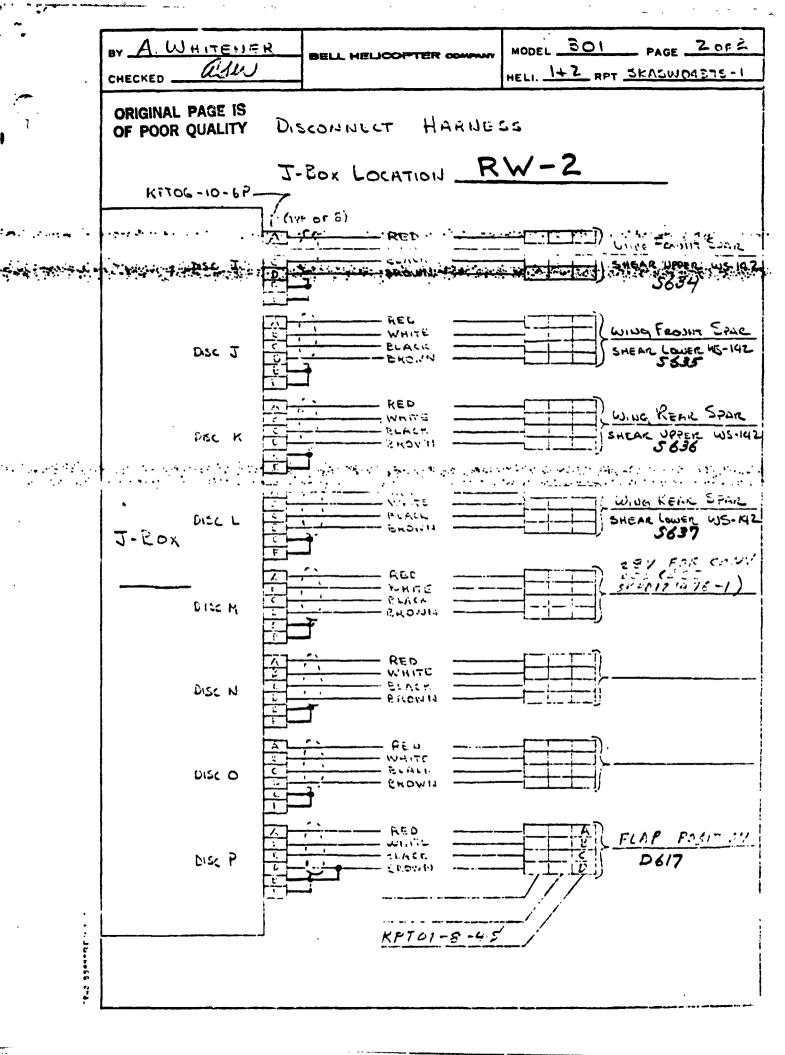
REMARKS: INSTALL TWO BENDING BRIDGES AS SHOWN. USE 910 CEMENT. RUN WIRES PER INSTRUCTIONS TO POST TYPE TERMINAL IN ACCESS HOLE. COVER WITH 9309. .

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ODEL NO.	GAGE TYPE FA- 13 - 125 TB-350	SHEET NO.
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K ORDER /427	GAGE FACTOR 2. 12 1.0%	PART NO. 300-001-615-1
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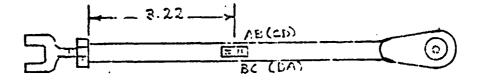
301 FLIGHT TEST

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REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEINENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

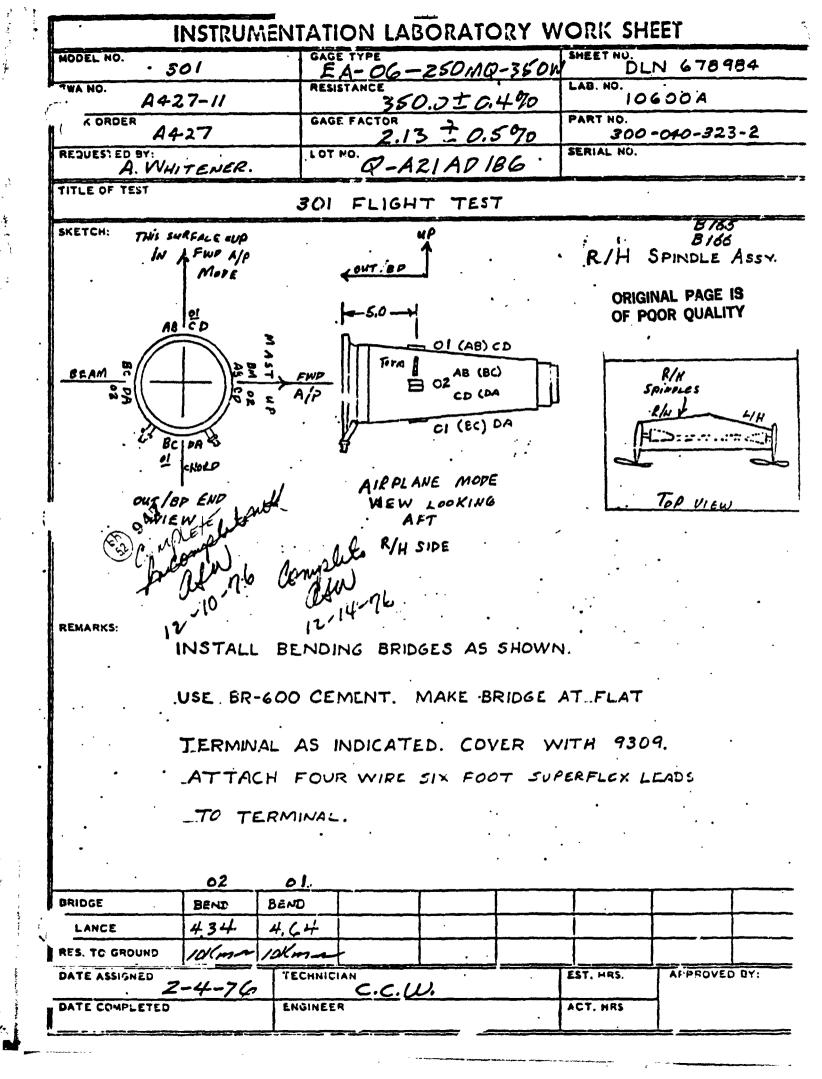
COVER WITH 9309 ATTACH FOUR WIRE SIX

INCH SUPERFLEX LEADS. ENCASE LEADS IN

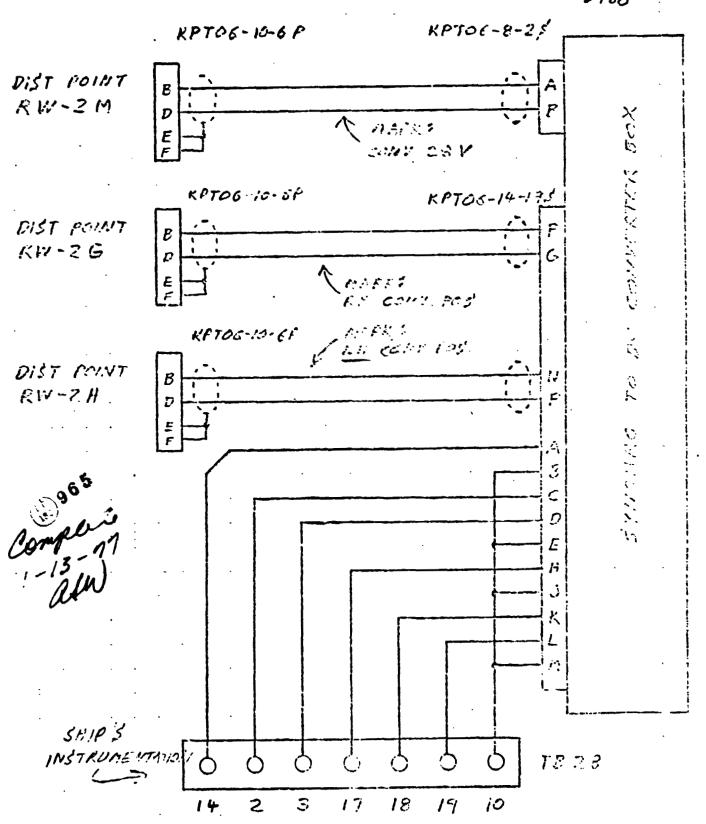
VINYL SLEEVING AND TERMINATE WITH MAP PLUG.

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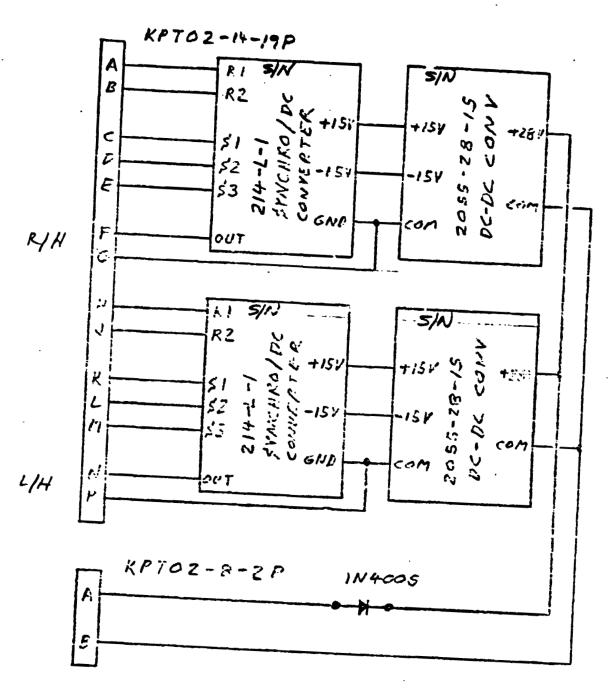


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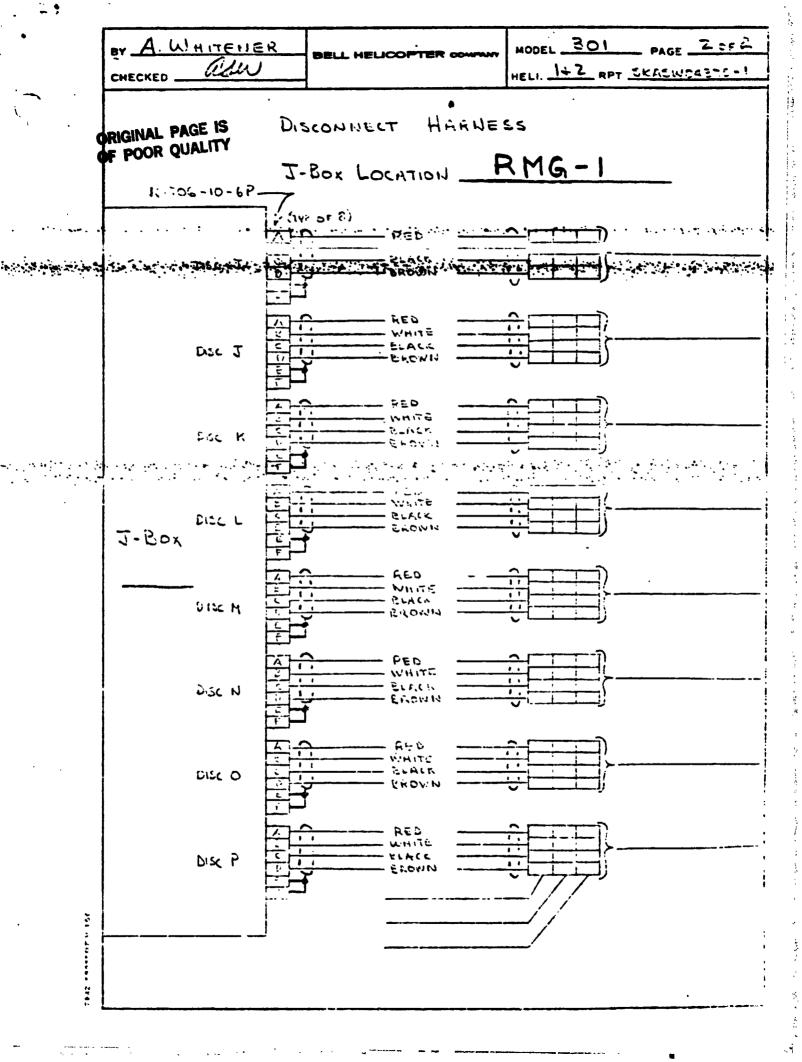
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-WA NO. A42		RESISTANCE 350.0 ±		LAD. NO.	332A
KORDER		GAGE FACTOR	***	PART NO.	332A
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INSTRUMEN	TATION LABORATORY	WORK SHEET
MODEL NO. 301	GAGE TYPE EA-06-250MQ-350	688512
EWA HO. A427-118	RESISTANCE 350 ± 0.4 %	. LAB. NO. 11333A
A 427	GAGE FACTOR 2.13 ± 0.5%	PART NO. 10565-200
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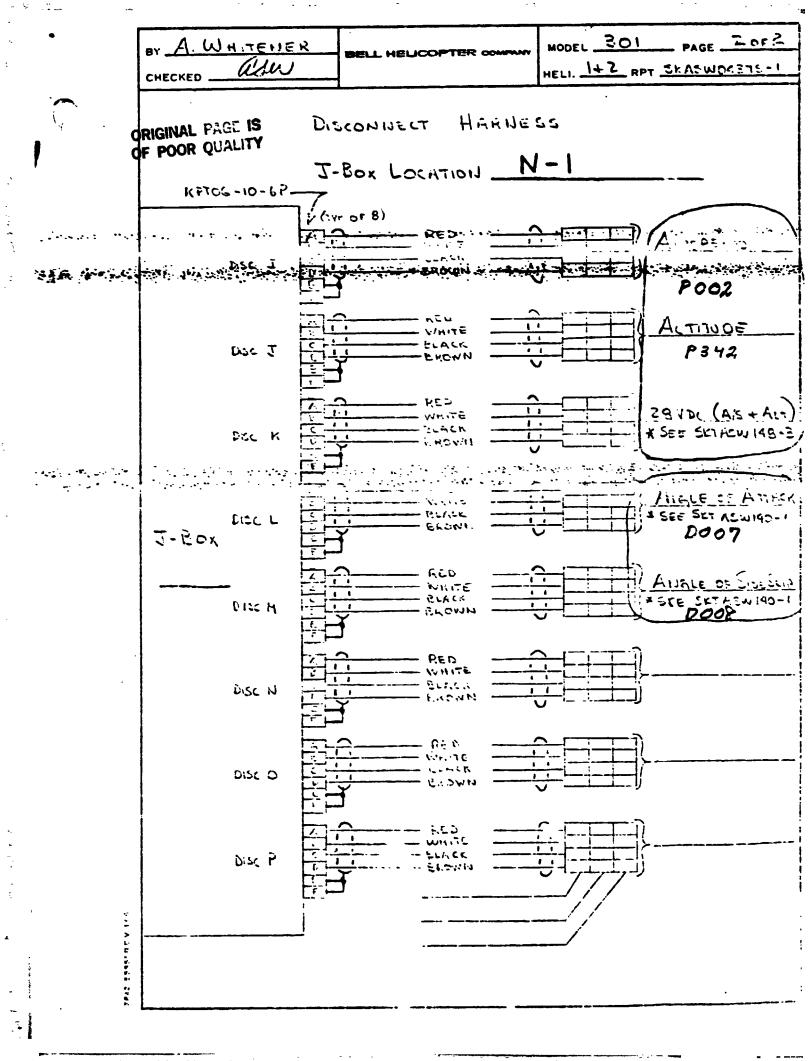
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- A. WHITEHER	Bell Helicopter TEXTRON	MODEL 301 PAGE 1
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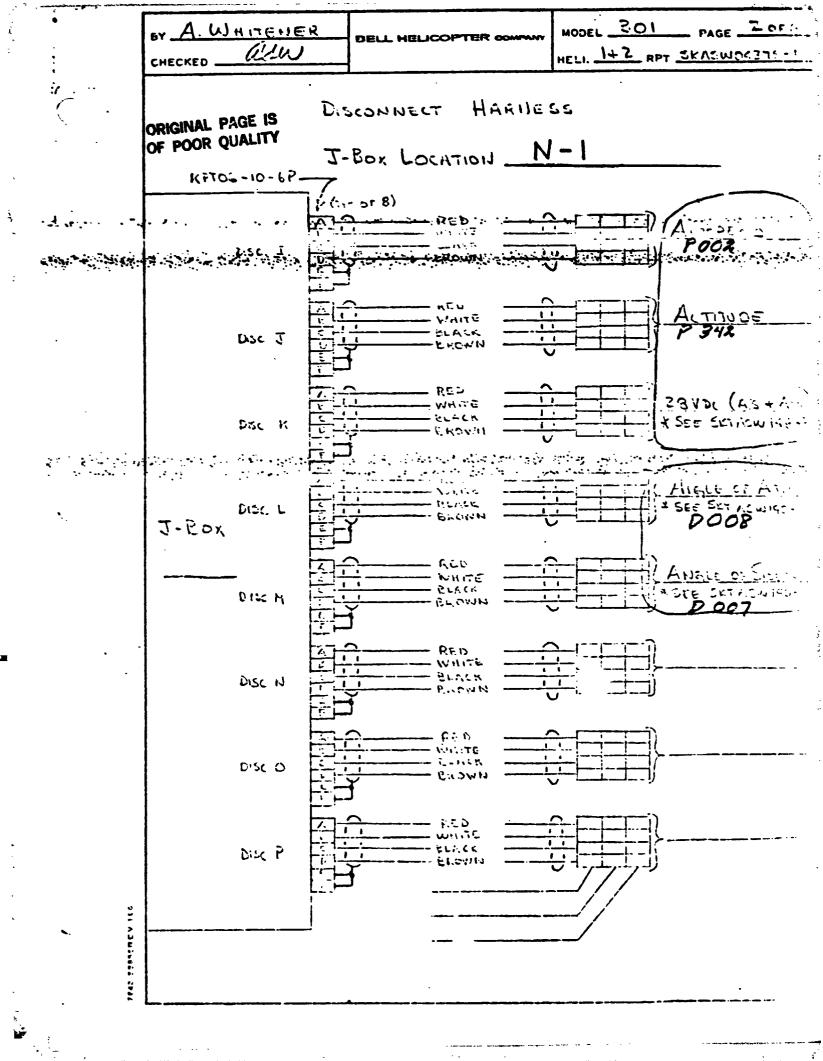
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BY A. WHITCHER	Bell Helicopter IIDARON	MODEL 301 PAGE /
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	BY A. WHITE	1150	DELL HELICOPTER	COMPANY	MODEL 301		
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INSTRUME	NTATION LABORATORY V	VORK SHEET
MODEL NO	GAGE TYPE EA-06-250 MC - 350	688512
TWA NO. A427-11B	RESISTANCE 350 ± 0.4 %	LAB. NO. //334A
RK ORDER A 427	GAGE FACTOR 2.13 ± 0.5 %	PART NO. 21800-200
REQUESTED BY: A. VVHITENCR	LOT NO. A 21 AD 142	SERIAL NO.
TITLE OF TEST 30	OI FLIGHT TEST	·
Complete 2-24-775	T S) 13337 DA . 13346
REMARKS:		ONT VIEW
INSTALL BENDI	NG BRIDGES AS SHOWN. US	SE EASTMAN 910 CEMENT.
MAKE BRIDGE	AT FLAT TERMINAL AS INDIC	ATED COVER WITH

INSTALL BENDING BRIDGES AS SHOWN. USE EASTMAN 910 CEMENTAL BRIDGE AT FLAT TERMINAL AS INDICATED. COVER WITH SHELL 9309. ATTACH FOUR TEN INCH SUPRENANT LEADS. ENCASE LEADS IN VINYL SLEEVING AND TERMINATE WITH KPT-06-8-4P PLUG.

BRIDGE	BENDING	BENDING	-		-		
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DATE ASSIGNED	_	TECHNIC	IAN CCVV-			EST. HRS.	APPROVED BY:
DATE COMPLETED		ENGINEE	R			ACT. HRS.	7

INSTRUME	NTATION LABORATORY	WORK SHEET
MODEL NO. 301	GAGE TYPE EA-06-125TB-350	688512
EWA NO. A427-11B	RESISTANCE 350.0 ± 0.4 %	LAB. NO. 11335A
ORK ORDER	GAGE FACTOR 2.07 ± 0.5 %	PART NO.
A. WHITENER	LOT NO. QA35AD 02	SERIAL NO.
TITLE OF TEST	BOI FLIGHT TEST	
SKETCH:	ORIGINAL PAGE IS	ROD END-HYD. ACTUATOR
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2-24-77995		· F 347
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WITH SHELL	9309 ATTACH FOUR WIL	CE. TEN INCH SUPREMANT

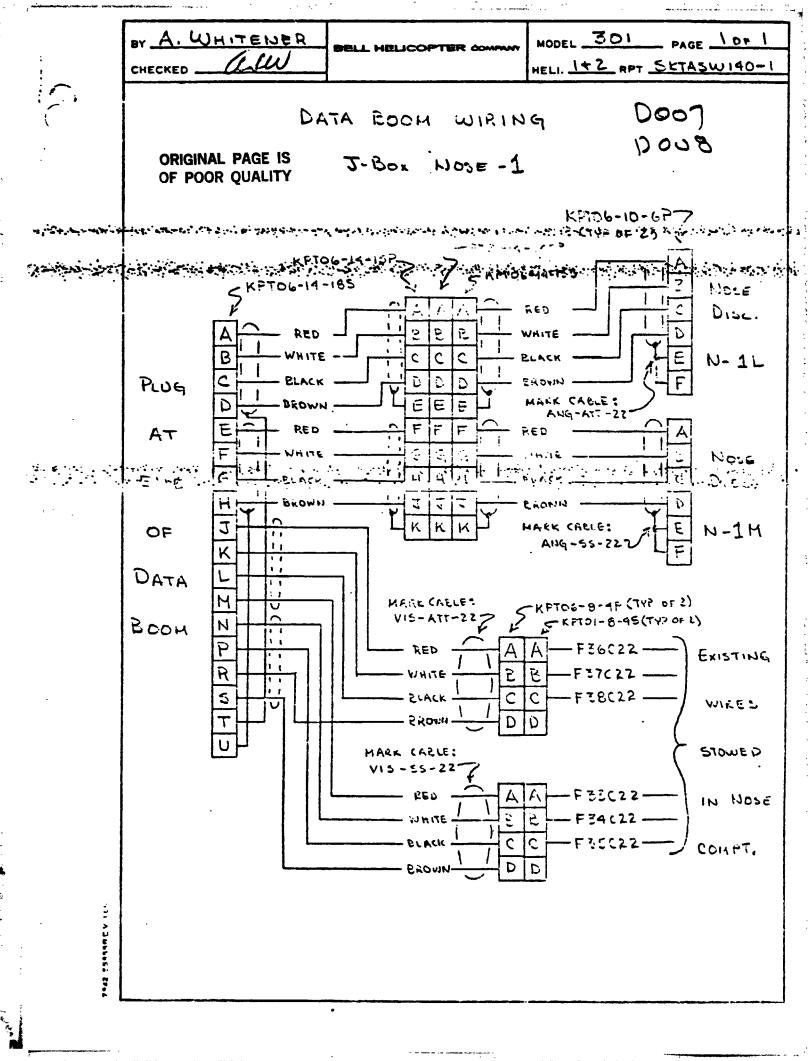
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DATE ASSIGNED		TECHNICIAN CCVV-		EST, HRS.	APPROVED BY:
DATE COMPLETED		ENGINEER		AC1. HRS.	1

MODEL 301 WHITENER HELI. 142 RPT SKTASW 143-3 CHECKED AIRSPEED - ALTITUDE WIRING P002 ORIGINAL PAGE IS 12 342 J-Box N-1 OF POOR QUALITY to the KALGE TO TO THE STATE I A STATE TO THE TOTAL STATE THE STATE OF the s ALT・ナムシモ White J-201 - PLACK -DE -95 1-1 0 EROWH -Disc# J. +28 Y D C 28 RTW MACE: N-137 CHACL: NE-22 ALTITUDE A192255 J-POX WHITE SIG. RETUKN C N-1 BLACK 8 PROWIN-Diec # I MACK: N-II Z ROSEMOUNT A/S - ALT SENSOR 28 V DC В 7-80x SENSOR C N-1 MOUNTED IN NOSE Disc # K #22 GEAN WELL MARK: NIK Z (90T)

NOTE: SEE SETASWORL-I RE N-1 J-BOX

BY A. WHITENER MODEL 301 PAGE 10: 1 CHECKED __ HELL 1+2 RPT SETASWIGO-1 P007 DATA ROOM WIRING D008 ORIGINAL PAGE IS J-Box Nose -1 OF POOR QUALITY enterpolation and the first comment of a set of the state of the state of the section of the sec And the second second section of the second KFT36-19-195 13-1-PLUG 14:40x3. MARK CARLES AT OF MARK CHELE: 14-11 A116, -55. 322 DATA MARK CALLES KALOC-8-4E (145 DES) BOOM V15-ATT-727 Existing F = 76 22 -ELACK -F 18022 -121:52 - 220mi MARK CARLES G Swotz VIS-25-22-35022. the Mote Const.

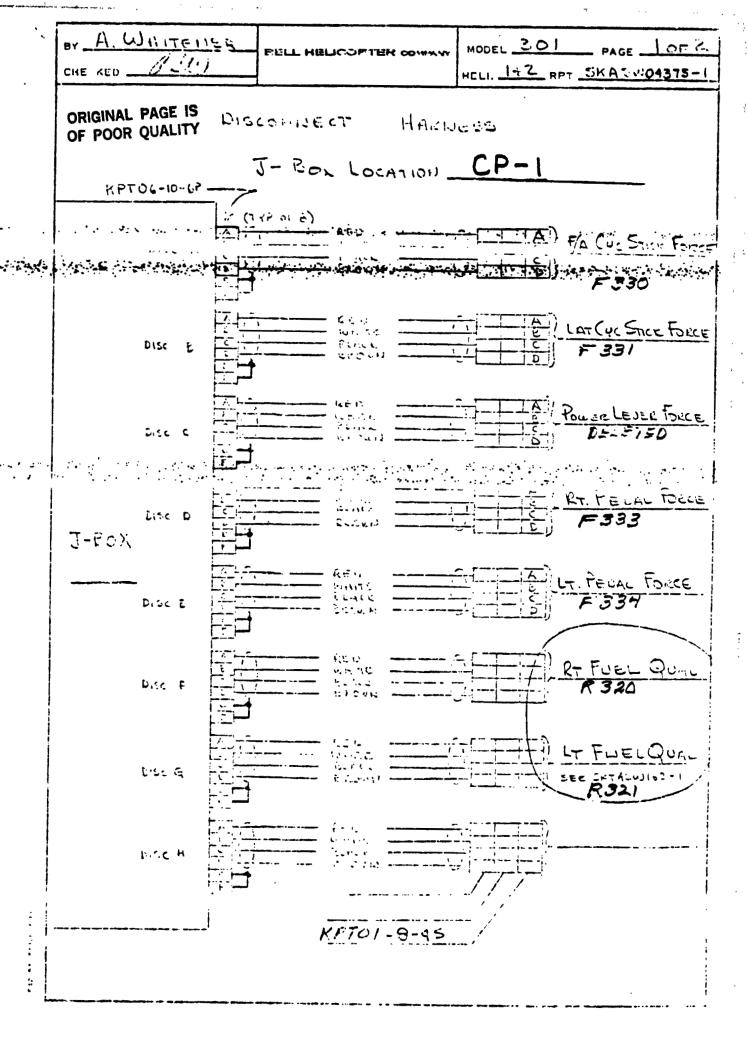


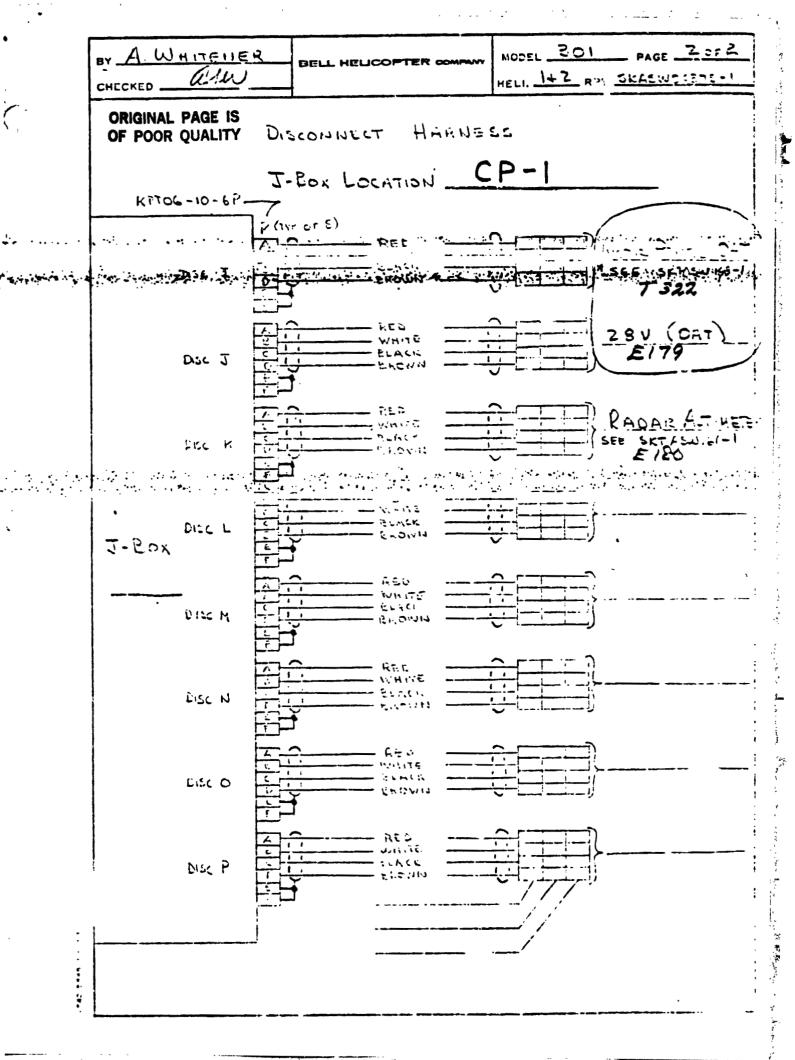
CHECKED ASS	DELL HELICOPTER COMMAN	MODEL 5-14-71. PAGE 10F1 HELI. RPT IL-FT-013
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3Ex 3	BLACK - U	ACCORDIG - OUTER POT
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1. + Ex 1. 1. 1. 1. 1. 1. 1. 1	- REO	ALELL OF SIDEOLIF
2. Losie 5 4. Losie 5	ELASK -	3 VISUAL'- INHER POT
3. SIID U KPTOI-14	-18 F 1	

- 1. SIGN CONVENTION UPSCALE, POSITIVE VOLTRGE
 ANGLE OF ATTACK NOSE OF HORIZONTAL VANE MOVES DOWN
 ANGLE OF SIDESLIP- NOSE OF VERTICAL VANE MOVES RIGHT
- 2. MECHANICIAL ROTATION 360°
- 3. ELECTRICAL ROTATION ± 170°±5° FROM CENTER TAP
- 4. POT VANE ASSEMBLIES INSTALLED WITH 3 POT TERMINALS AFT

MODEL 301 BY A. WHITEHER RPT SKASW 38576-1 HELI. -CHECKED . P002+ SHIP'S A/S + ALT. CONNECTIONS 12 347 **driginal page is** OF POOR QUALITY CO- PILOT & INDICATORS TOTAL SHIP'S SYSTEM CAPPED WHEN PILOT'S SYSTEM LIS HOOKED TO HOSE BOOM RESEARCH WILVERSHIP LSH KOSEMONT Als + het BOOM SENSOR PILOTE 111016-3045 TRAILING De TOTAL) TEALLING RONG HACE-BULEH GAD PASSTH COUCH -DE STATIC) POINT ON BONE (STOWED WHEN SHOULD ALL HOSE BOOM 15 BE IN THE SAME HOOKED UT) LOCATION 20 JILW STUFUL SHOS PHILLIPL ONA CIN BE EXCHANGED AT VAVIOUS TIME DURING TY'TS. 2. ALL TURES WILL BE RED (TOTAL) + YELLOW (SIMIL) / POLYFLOW TUSING 3. PILOTE CONNECTED TO EITHER NOSE BOOM, SYLTEM CUM BE TEAILING BOHZ SHIP'S SYSTEM 510

BY A. WHITE NER	Bell Helicopter IEXTRON	MODEL 301 PAGE
CHECKED	Division of Textion Inc. POST OFFICE BOX 482 + FORT WORTH, TEXAS 76161	RPT ASW 5377-3
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		Ib" STEING POT





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MODEL NO.) į	EA- 13- 1	2578 - 356	SHEET NO.	678754
EWA NO.	27 - 11 A	RESISTANCE		LAB. NO.	113784
ORDER	27	GAGE FACTOR		PART NO.	-101-05:-43
REQUESTED BY:		LOT NO. (4) - A 15		SERIAL NO.	
TITLE OF TEST	HITCHER				
		301 FLIGHT	TEST		
SKETCH:		ORIGINAL P OF POOR Q	1 (7)	BE ASSY, (C)	(E) F/A
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MODEL NO.	GAGE TYPE	SHEET NO.
301	1 50-12-125 TB- 200	DLN 673984
TWA NO. A 427-11A	RESISTANCE	LAB. NO. 10457A
A 427	GAGE FACTOR	PART NO. 3C1-3C1-053-4
REQUESTED BY: A. VIHITCHER	LOT NO. C-1100F-F3	SERIAL NO.
TITLE OF TEST		
	301 FLIGHT TEST	
SKETCH:		F331
	man BACE IS TENDE ACES	•
ORIG	INAL PAGE IS TUBE ASSY	(CYCLIC STICK) LAT

(CD) AB (EE) 5C (DA)

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REMARKS:

INSTALL AXIAL PRIDGE AS SHOWN, USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT. TERMINAL AS INDICATED. COVER

LEADS. ATTACH FOUR WIRE SIX INCH SUPERFLEX

LEADS. ENCASE LEADS IN VINYL SLEEVING AND

TERMINATE WITH MAP PLUG.

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2-16-76		ENGINEER		ACT. HRS.		

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MODEL NO	01	GAGL TYPE 13 - 1.	5 TB - 3	30W		: 75:	
ENA NO.	27-11 A		0.0±0.	11-03		374	
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TITLE OF TEST		301 File!					
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DATE COMPLETED

2. 1/2-7/3 TES MOTAR

C.C.(1), - 11, 11. 11 AFF 30V_D 2V: CST. HRS ACY, HRS

INSTE	MENTATION LALGRATORY WORK SHEET	V:
301	6AGE TYPE	····
A 127-11A	RESISTANCE 10638 A 10638 A	
K ORDER A CONT	GAGE FACTOR 2.10 ± 1.0 % PART NO. 301-053-018-15	
A. J. Communication	EDT NO. P-A13AF 47 SERIAL NO.	
TITLE OF TEST	301 FLIGHT TEST	
SKETCH:	F334	المنسد
و المانية	ORIGINAL PAGE IS TURE ASSY (TEDA). FOR TO	-
James James	3.22 AE (CD)	

REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN, USE BP-200 CEMENT.

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WITH 9309, ATTACH FOUR WIRE SIX INCH SUPERILEX

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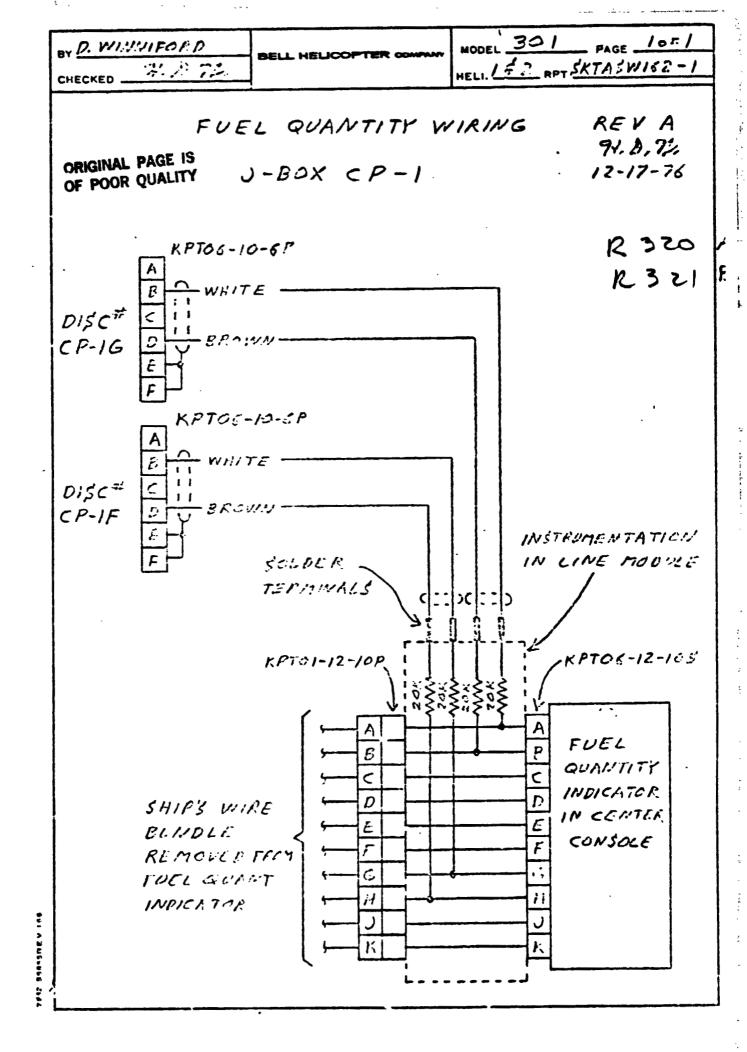
TERMINATE WITH MAP PLUG.

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DATE COMPLETED 2-16-7		ENGINEER			ACT. HRS.	

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MODEL 301 BY A. WHITENER HELI. 142 RPT SKTASW148-1 alw CHECKED _ T 322 OAT WIRING ORIGINAL PAGE IS OF POOR QUALITY J-Box CP-1 entrengt was enter and a fire gratified for the tip of the fire of હિલાના અમારા કેટલાનું મુખ્ય કુલાના પ્રાથમિક મામાં કે મુખ્યત્વેલોના મામાં કેટલાનો કુલાનો પ્રાથમિક કેટલા કુલાનો મુખ્યત્વેલા કુલાનો મુખ્યત્વેલા કુલાના મામાં કુલાના કુલાના કુલાના કુલાના કુલાનો મામાં મામાં કુલાનો મામાં સામાન MARK CONSCIONS CRIT + CP-17 KPTO6-10-6P TYP of 2 .HALL: CAT - SIG- 22 Disc# J . RED PLACK . KPT06-12-105 A Strain is a second CAT SIGNAL CONDITIONER +28 V DC 478 BS Disc # I WHITE 0-5 Y DC C SV RTN **ERONN** - SENSOR CASE GND M53:06-195-55 CMARK: DAT PROGE-22 HOUNTED IN - RED COCKPIT TAO B - White PROBE C - BLACA -(HOLINTED CI - bacari -0 EELLY OF SHIP)

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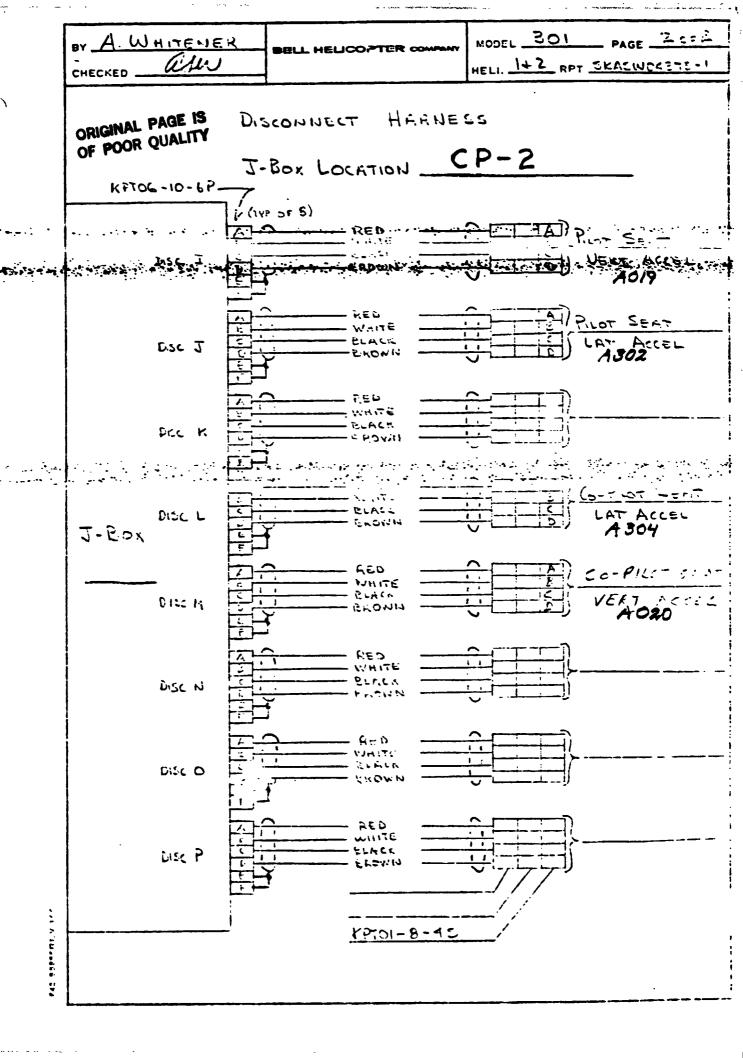


	BY A WHITEINE	BELL HELICOPTER COMM	MODEL 301 PAGE 10F 6
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tropi pate i servici pe Si segun estre in me	T-BOX		CODE TESAL TOS.
	Disc B	E WHITE COM II	FLAP LEUE C PES
	Disc F	RED SHITE STATE STATE	2009 _{7/4}
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	Disc H	Marie Control	
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HELICOPTER COMPANY	ENG	INEERIN	G OR	DER
CODE IDENT. NO. 97499	CHANGE		SER NO.	5 40 S
AUTHORITY FOR CHANGE		TEST		
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RELEASE INFORMATION PERSONNEL REV. 771	CHANGE	SPARES	IMFO, U.RG.B., 1000, 19616	

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SIICK POS	TITION BRACKE	1 FOR 3	01 SHIP#1 \$#2
DRAWINGS AFFECTED F	DRAWING CHANGE LTR.		DRAWING TITLE
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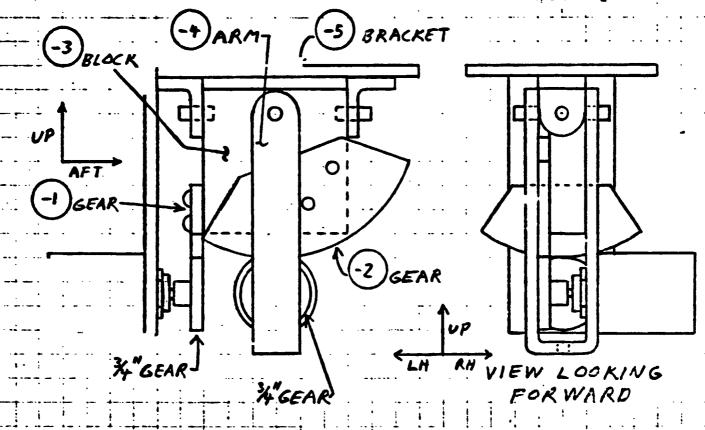
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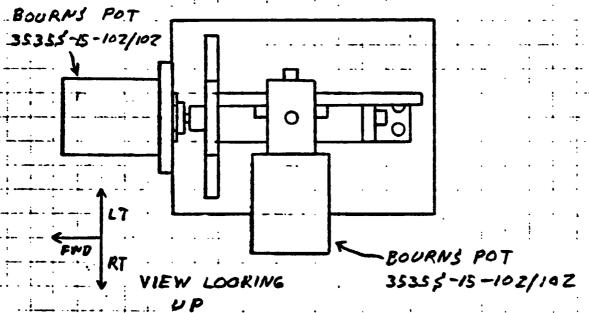
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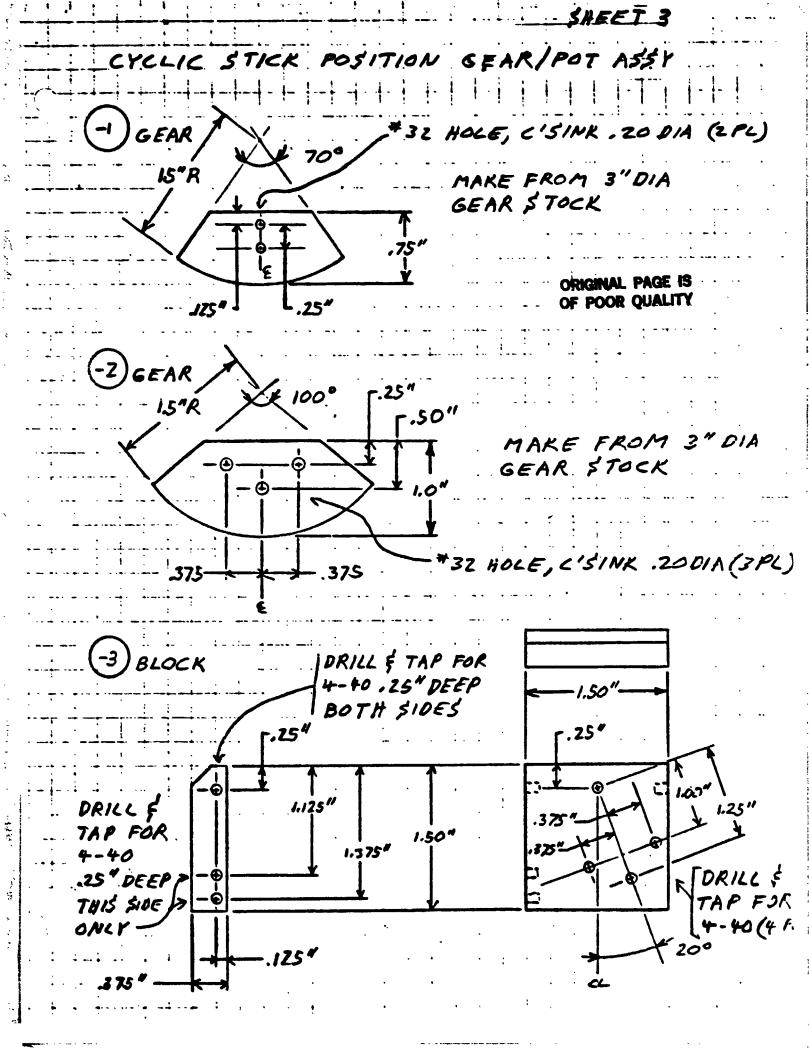
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CYCLIC STICK POSITION GEAR/POT ASSY

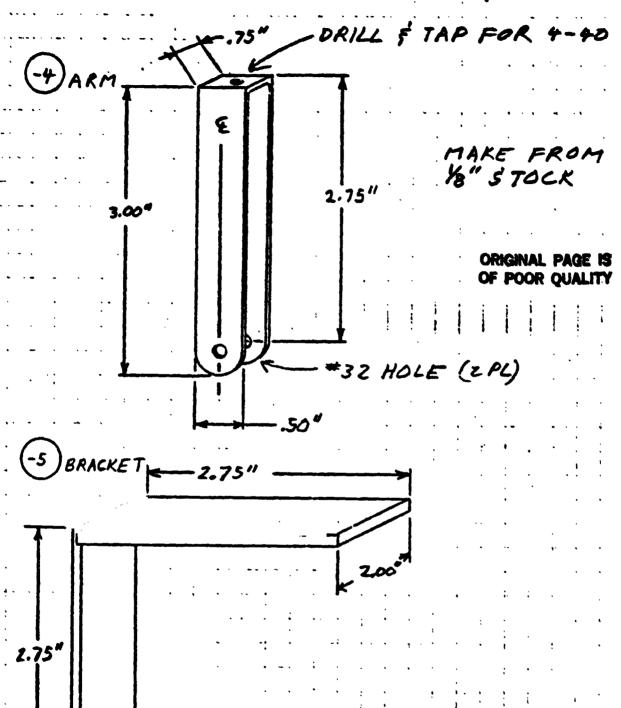
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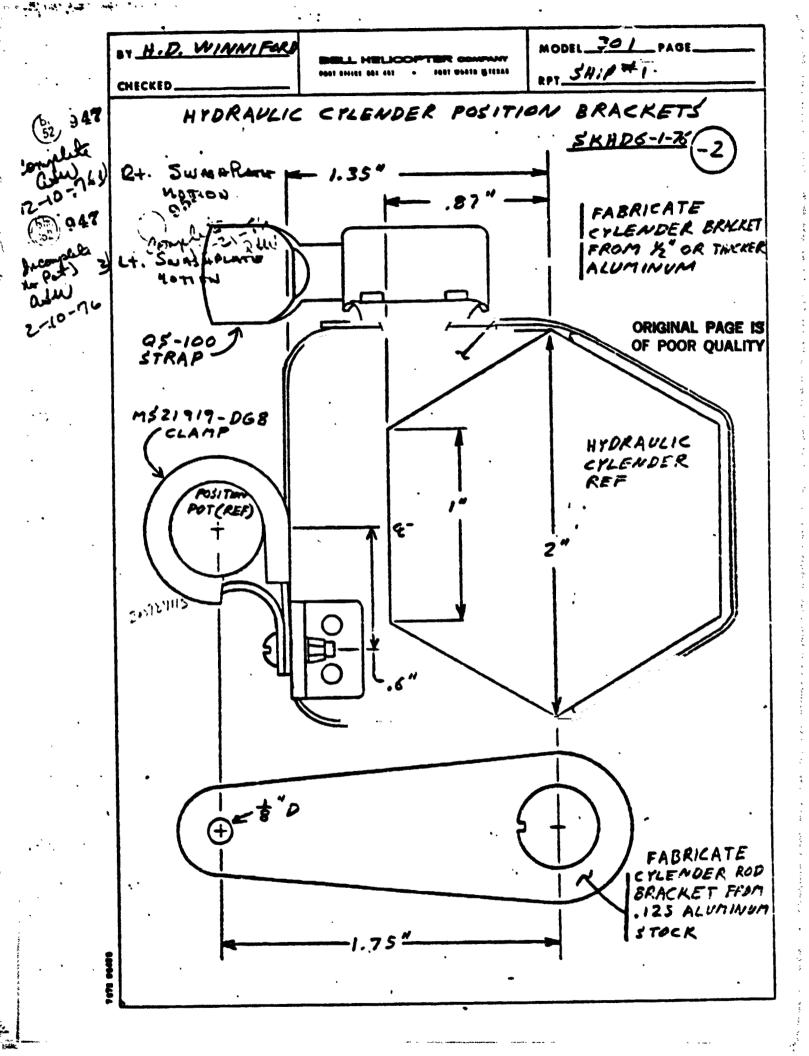
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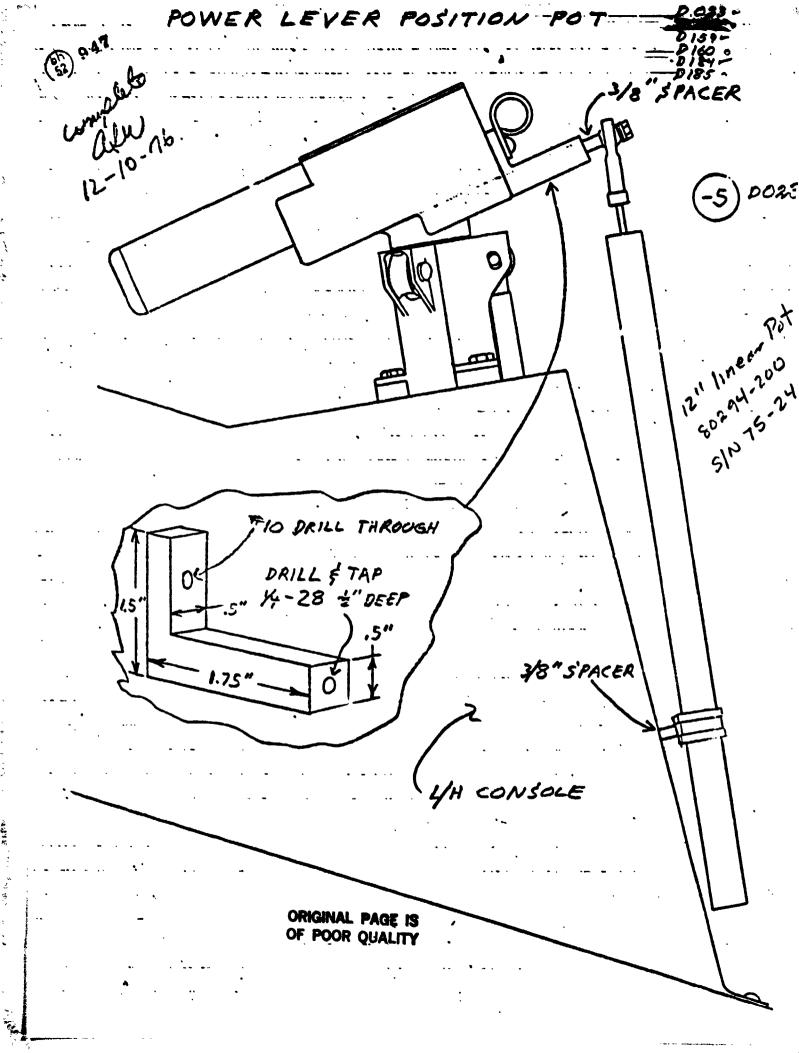


LEVER POSITION ORIGINAL PAGE IS OF POOR QUALITY FIO DRILL THROUGH DRILL & TAP 14-28 &" DEEP 3/8" S'PACER 4H CONSOLE

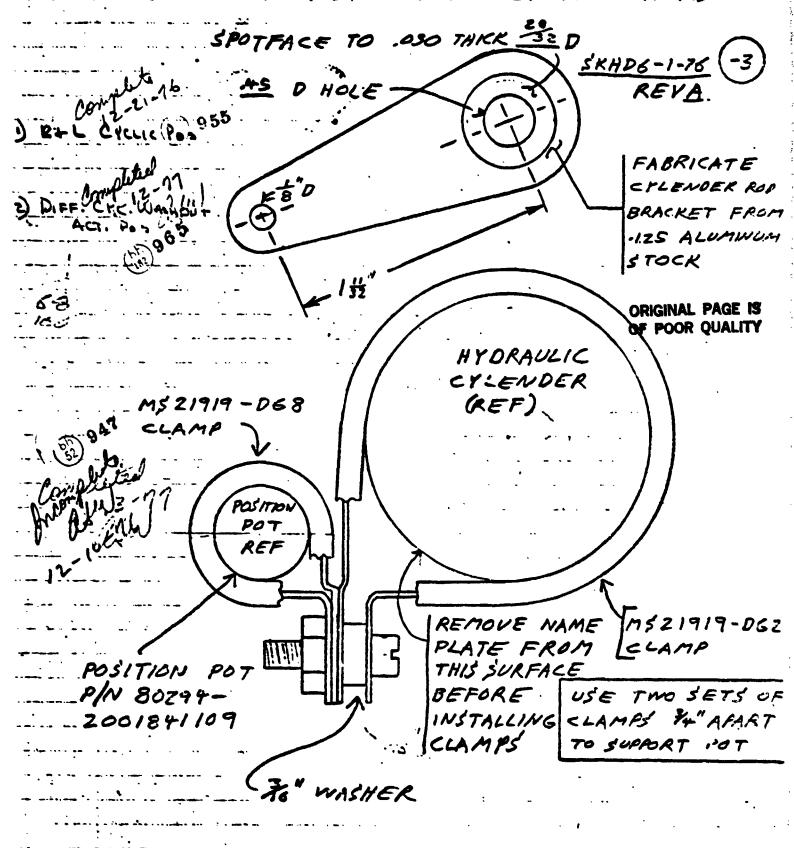
HYDRAULIC CYLENDER POSITION BRACKED FOR ELECTRCALLY CONTROLED ACTUATORS

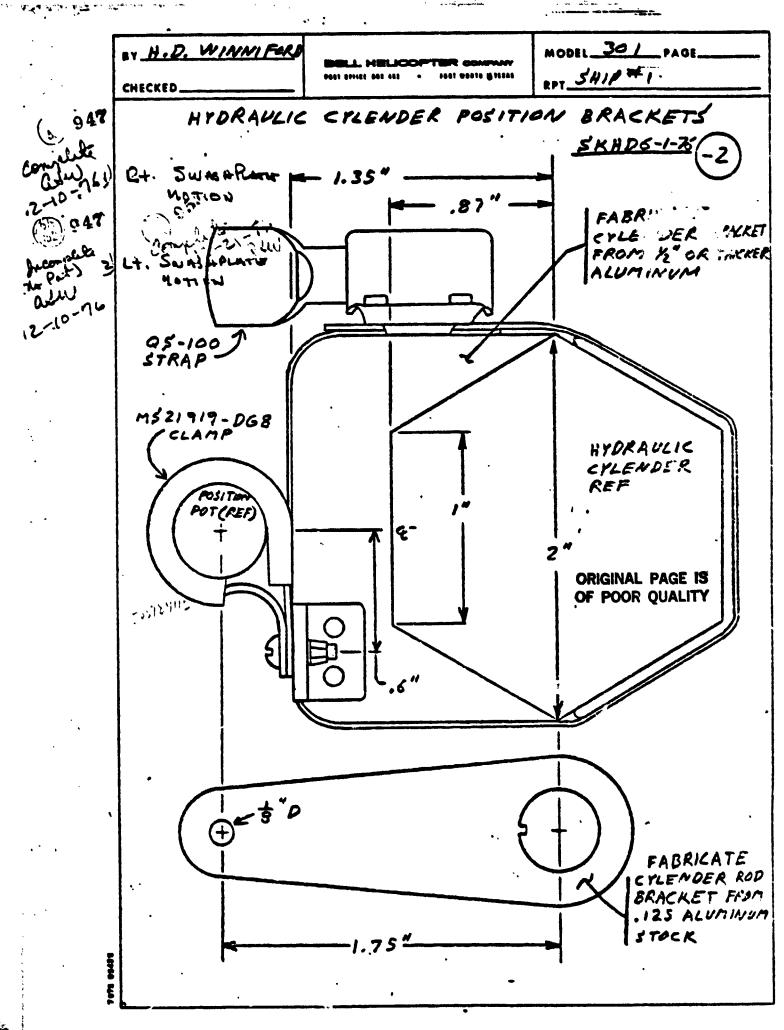
SPOTFACE TO .030 THER 32 D SKHD6-1-76 AS D HOLE REVA FABRICATE CYLENDER ROL BRACKET FROM .1.25 ALUMWUN STOCK HYDRAULIC CYLENDER (KEF). MS 21919 -D68 POS/TTON REMOVE NAME YM\$21919-06 PLATE FROM LCLAMP POSITION POT THIS SURFACE P/N 80294-BEFORE USE TWO SETS O INSTALLING CLAMPS "4" AFART 2001841109 CLAMPS TO SUPPORT POT Za" WASHER ORIGINAL PAGE IS OF POOR QUALITY





HYDRAULIC CYLENDER POSITION BRACKED FOR ELECTRICALLY CONTROLED ACTUATORS

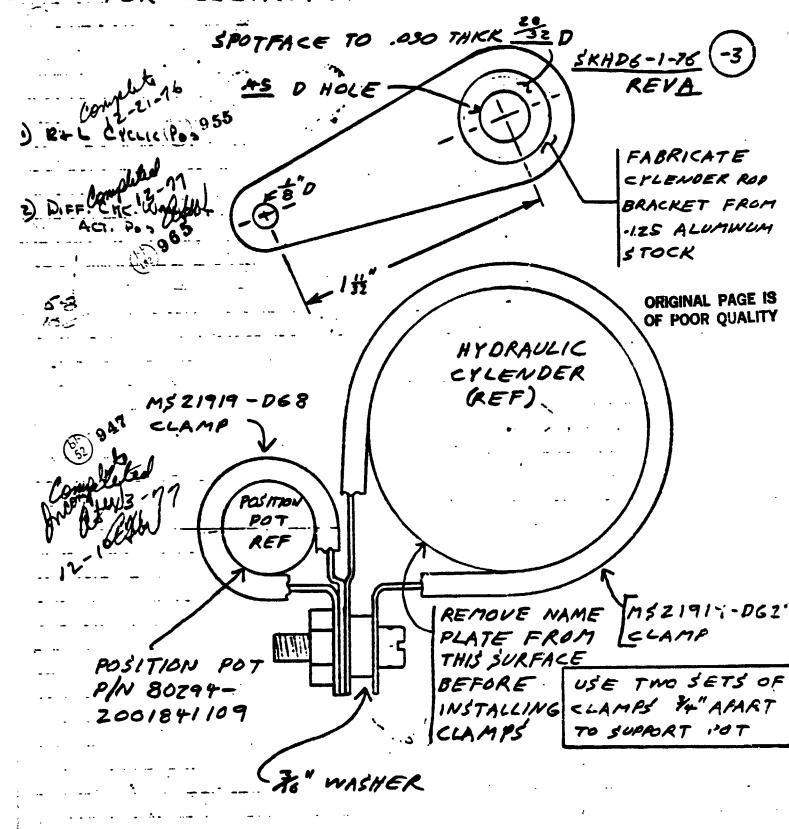




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POWER LEVER POSITION POT 12" linear Pot 51" 250240 ORIGINAL PAGE IS OF POOR QUALITY FIO DRILL THROUGH DRILL & TAP -5" 14-28 1" DEEP 3/8" S'PACER 1.75" 4H CONSOLE

HYDRAULIC CYLENDER POSITION BRACKED FOR ELECTRCALLY CONTROLED ACTUATORS



SY H.D. WIMMI FOR MODEL 30/ PAGE RPT SAIP #1. CHECKED 947 HYDRAULIC CYLENDER POSITION BRACKETS SKAD6-1- (-2 et. SwaaRer pe 1.35". NOTON FABRICATE CYLENDER BRAKET FROM K'OR THEKER ALUMINUM 12-10-96 ORIGINAL PAGE IS OF POOR QUALITY 95-100 7 STRAP M\$21717-DG8 CLAMP HYDRAULIC CYLENDER REF POSITE POT (REF) 2002 mg (1) (1) (1) (1) (1) (1) (1) (1) FABRICATE CYLENDER ROD BRACKET FFYA .125 ALUMINUM STOCK

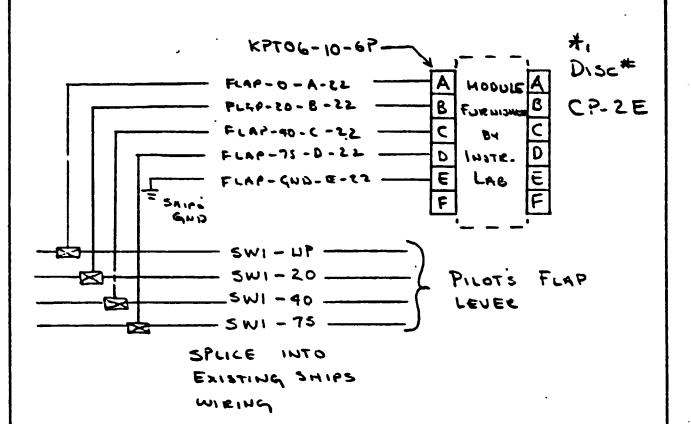
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A CABLE MY BE ALREADY ROUTED IN SHIP

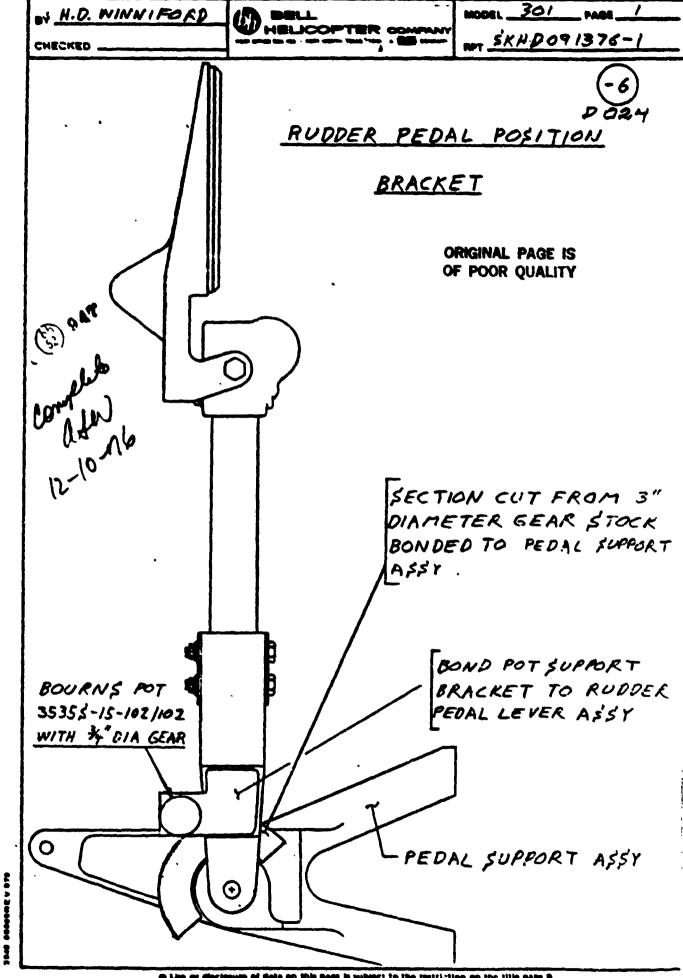
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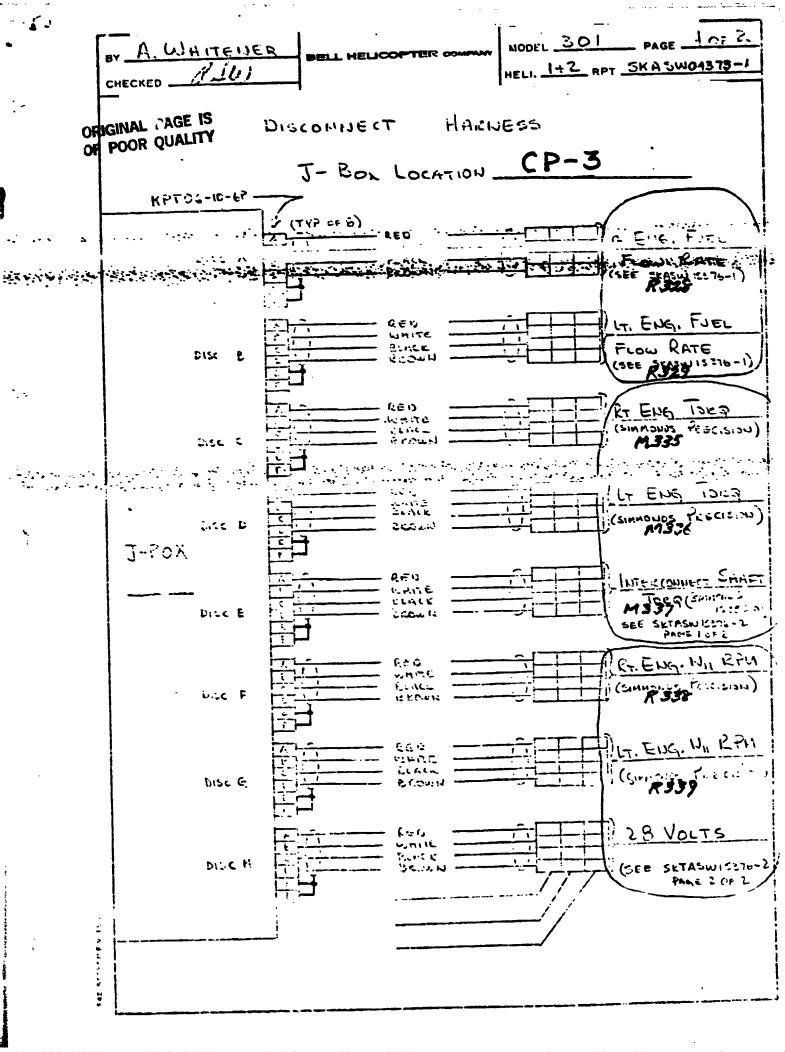
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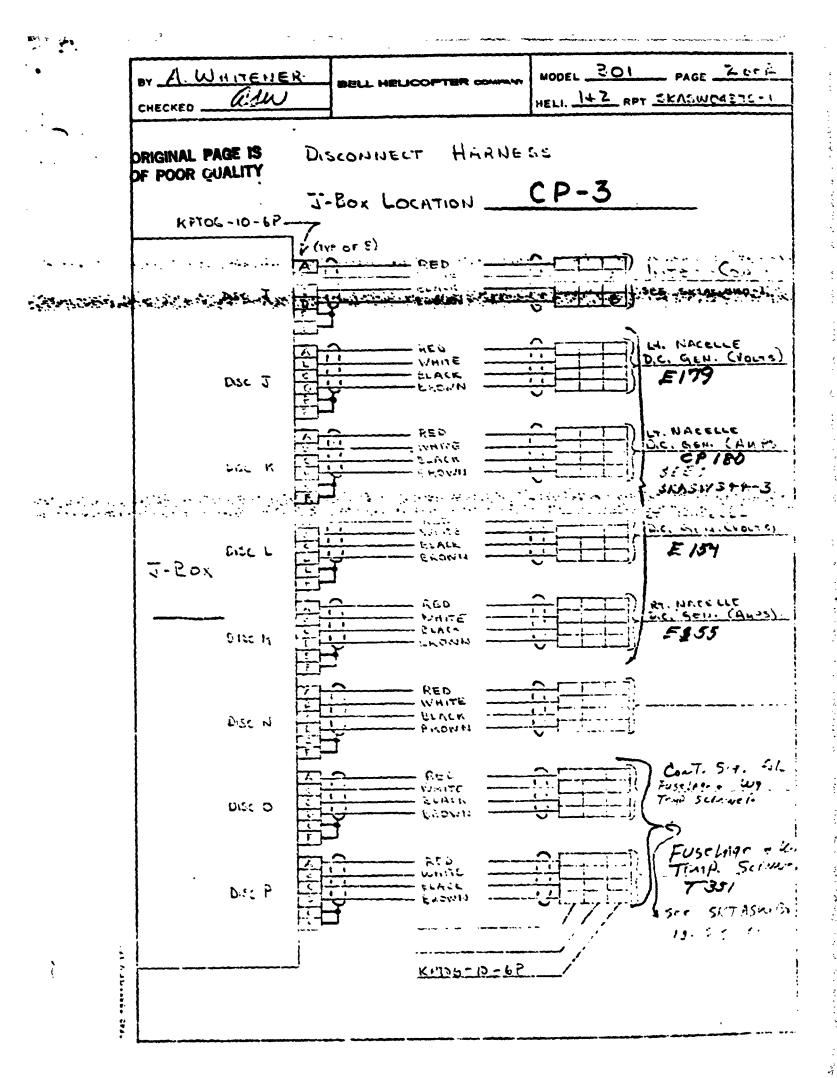
RED - WHITE - BLACK - BROWN (REEN) COLOR

TO A - B - C - D PINS IN CONVECTOR

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ON A. WHITENER	Boll Helicopter TEXTRON December Southerns Treat gardet data die - septe seems, teams team	MODEL 30 / PAGE 2012.
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MODEL _ 30/ BY A. WHITEHER HELI. 1+2 RPSKASW 15376-1 lisw CHECKED . R328 R.324 RT. + LT. ENG. FUEL RATE ORIGINAL PAGE IS OF POOR QUALITY J-Box CP-3 Mind the company of the property of the proper Mary the state of the second s Some of the state of the second KT. Eng. FUEL RATE RT. ENG FUELTION MART: CP-ZA Z HARK: LT. FUEL - 22 LT. EHG. FUEL RATE MACL: CP-86-2 EXISTING CONNECTORS AT LT. RADIO HACK IN FWO CAZIN MAKE FROM Z CONDUCTOR ORANGE CALLE

PAGE 10F 2 A. WHITENER 301 HELL 142 APT SEASWITE76-2 CHECKED _ A1 335 4 336 M 337 OFFIGINAL PAGE IS SIMMONDS PRECISION WIRING OF POOR QUALITY J-Rox CP-3 THE WAR AND AND SELECT THE PARTY OF THE PART E Rt. Eng. Todg. (Π) Disc#CP-3C LOCATED MARKILT ENG TOCQ-22 ASC 12 LT. ENG. TORQ. Disc F (7-3D NOSE F -MARKS INTER SHAFT TORQ-22 COM FT. INTER CONNECT છ Ê SHAFT TORG.

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-EROWN .

MODEL 301 PAGE 20F2 A. WHITENER RUN HELI. 1+2 RPT SKASWISS76-2 CHECKED _ R 338 R 339 SIMMONS PEECISION WIRING J-Box CP-3 ORIGINAL PAGE IS OF POOR QUALITY SMARK: RTENG NI - 22 147 OF 2 RED A RT ENG NE RPM white RIENG NE RPM FEEQ. TO DC BLACK C CONVERTER BEOWN MO ASTUUDING LT. CABIN (FWO) F PADIO RACK -45621 CHARK: LT ENG NE-22 A LT ENG NE RPH (ED STIHW LTENG NE RPM FREQ. TO DL C BLACK CONVERTER D MOUNTED ON Disc# CP-3G LT. CABIN (FWD) F RADIO RACK - 45617 TB 30 28 VOLTS LOCATED CP-3H 12 it Fwb NOSE COMPT. MACK TB30 END CRIMP LUGS. DO NOT UP THESE LUGS TIME

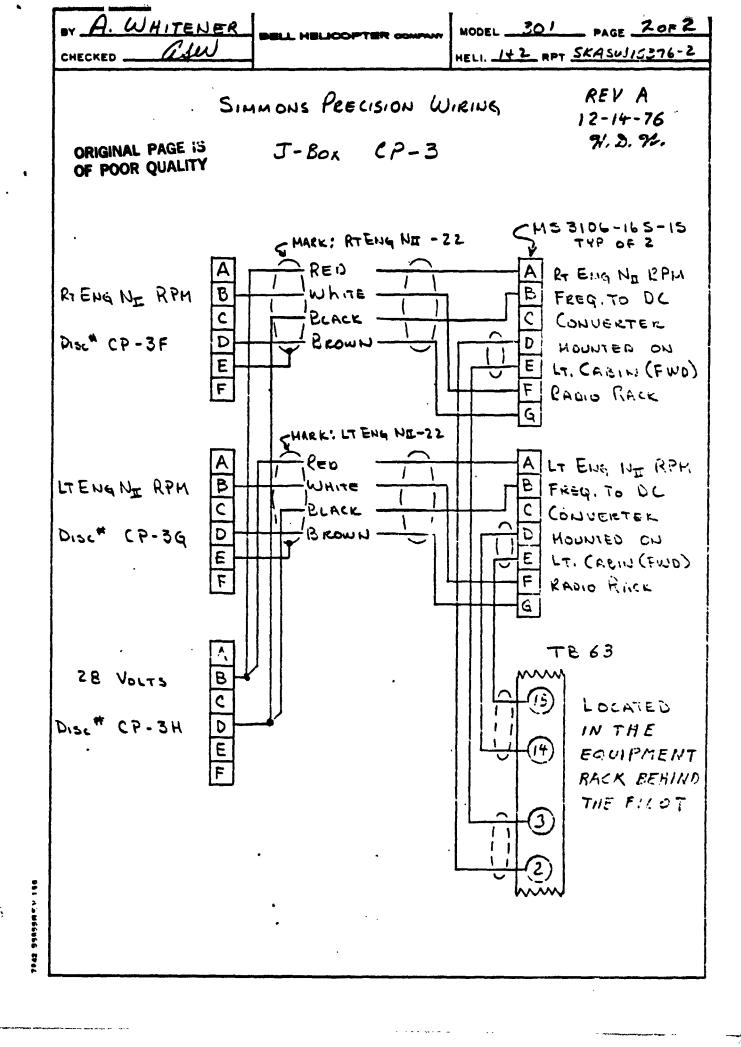
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BY_ ! WHITEHER CHECKED . HELI. 142 ROY SEASWISS76-2 M1355 SIMMONDS PRECISION WIRING M337 J-Box ORIGINAL PAGE IS CP-3 OF POOR QUALITY TB 30 MARKS RT ENG TORQ-EZ RT. ENG. TORQ. LOCATED CHARKILY ENG TORQ-22 12 LT. ENG. TORQ. 3 LT. FWD Disc * CP - 3D 7 Nose. MARKS INTER SHAFT TORQ-22 INTER CONNECT COMPT. SHAFT TORQ. (O Disc* CP-3E

MAKE WITH 2 CONDUCTOR ORANGE CABLE

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	CH. CALCO	BELL HELICOPTER @	MODEL		AGE 101 10 ASW 344-3
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	MOUNTED AT WING TWELAGE	EK: RT - DL - AMPS		CP - 5.	M Kanada iya karanga dan
	(+) LEFT \$106	K: LT - DC - VOLTS WHITE WHITE SECURD	A D U D E	CP-37	.
	SHIP'S ZEVDE 300 AND SHUNT MOUNTED AT WILLY FUSEURGE DISCONNECT (-)	EK: LT - DC - AMPS	F A P U D W	CP-31	κ .
	Note: ALL CIRCUIT	Breakers Are	70 EE 1 A	MP	

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MODEL 301 WHITENER HELI. 1+2 RPT SKTASWOGI-8 CHECKED . 5298, E298 E369, E370, E371, MODEL 301 ORIGINAL PAGE IS E312, E 573, E374, OF POOR QUALITY I-BOX SIGNAL CABLE AND E 375, E 647, E 648 € 649 (TYP OF 12 - LW-1, RW-1, PW-2, CAB-1, ENF-1, ENF-2, CP-1, CP-2, CP-3, N-1, RNG-1, LNG-1) المرابع والمرابع retificant Bidlight Constitution 0 - Exit. Test A. 2-25 SCETH - ENT O COMM. TE ST Pt. ع دعة ك 14 EREFN site A SENSE BRCWN [X]+E1 FLUE 3 N 31G SIG A U-E4 YELLOW BUJE E 5161. 5HD DISC 5 SIG B あるい Siten san jag 4 shiring kunda 519 6 12.56 D SIL D ELUE ع ودمو RED Ibisc E SIG E SAREEN TOISE F 516 F BLACK PLUE GLEEN TRISCE 514 6 BLACK PLUE WHITE I DISC H SIG H ELACK GREEN TDISC I 514 I Thei TEISC 3 519 J KEU PREUE STIHLW DISC M 519 K KED DRANGE IDISC L SIG L BLACK t.E.D BKOWII Trice M 514 M BLACK TRLUE KPT02-10-63 TOISE N 516 N CTYP OF 14) ELUE Yerrow 33 15'2' O SIE. O LUNCY. ಕ Ini Sia REC SIG P CKP706-24-61P

MODEL 301 . A. WHITENER HELL 1+2 RPT SKTASWOOI-6 CHECKED . E 072, E073, E 074, ORIGINAL PAGE IS Model 201 OF POOR QUALITY E075 SIGNAL CABLE TYP OF 8 -- LP-1, LP-2, LR-1, LR-2, RP-1, RP-2, RR-1, RR-2) A to the control of t 如此於**國際 共产的關係** -EAIT BLUE SENSE FLUE SQ A J ELUE SIG B FLUE C. 514 C MH IZE ほしりそ … S. 6 13 BLUE CONNECTOR SIG E GLEEN GREEN SIG F BLACK BLUE 319 G PLUE SIG H GREEN SIG I LED DF.AUCE SIG J たき シ ELUE 371HW 514 K KED CRANGE SIG L LKIN * NOTE 1 RED SIG M RR-1, RR-2, LR-1, LR-2 FLUE SHOULD HAVE SIG N KPTO 2-24-615 SIG DIZ 2400 514 P ودب KPT06-29-617 KPT06-24-615 * Note 1

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<u>.</u>	or A. WHIT	PENER	BOLL HOLL	JCOF188 004		MODEL .		_ PAGE	
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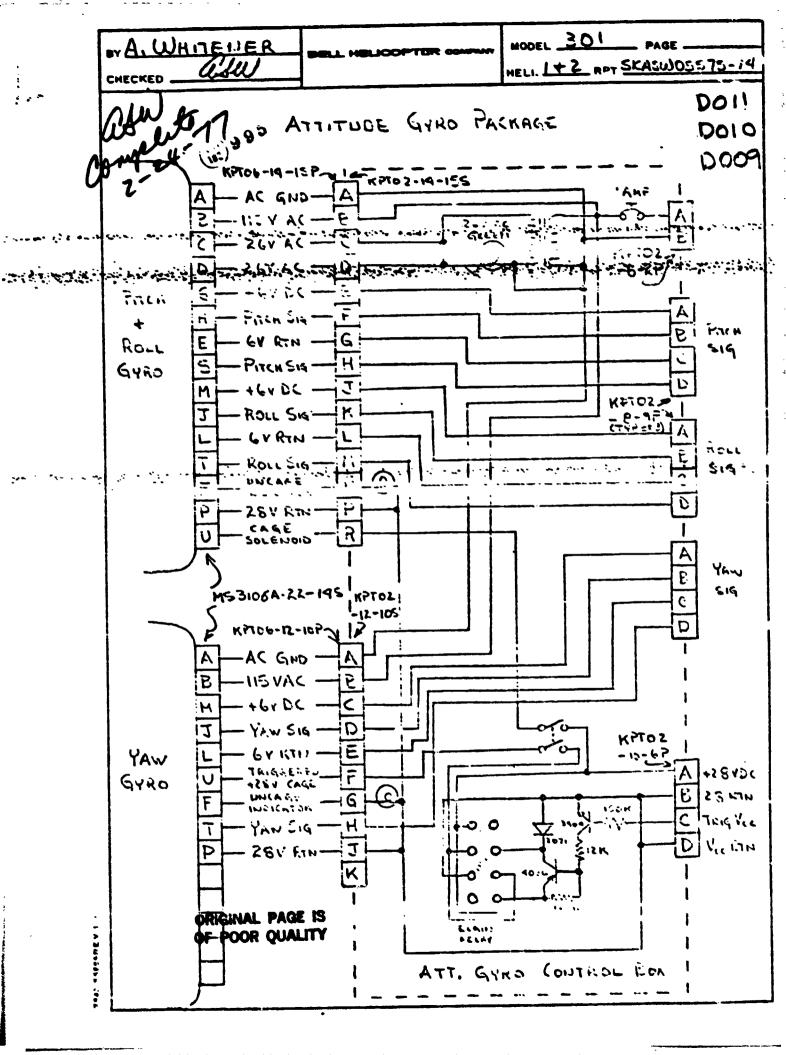
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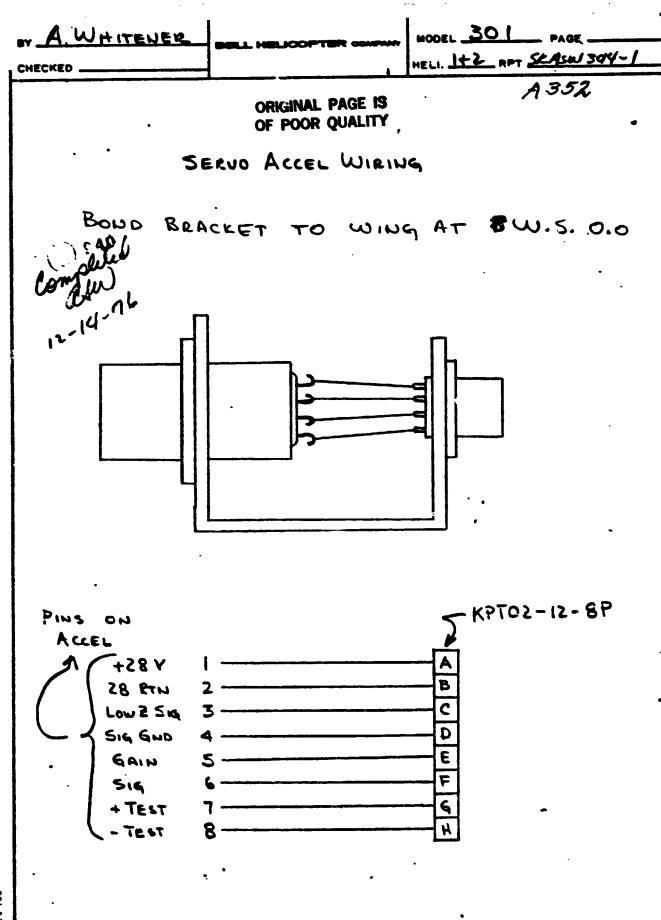
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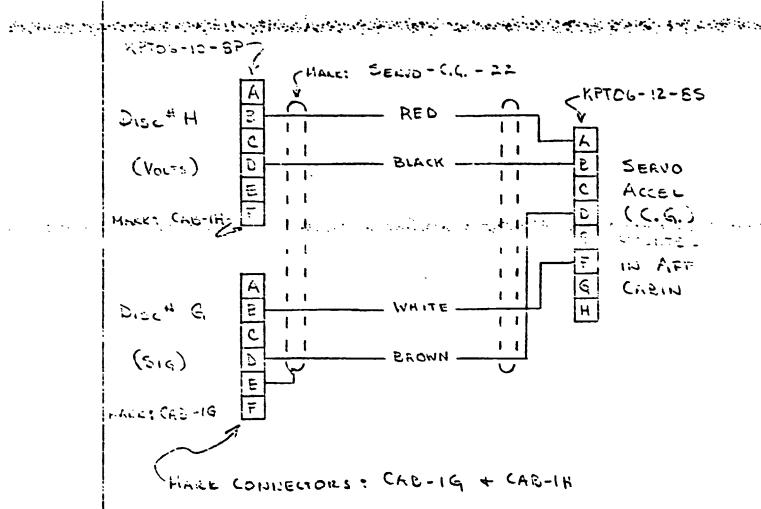
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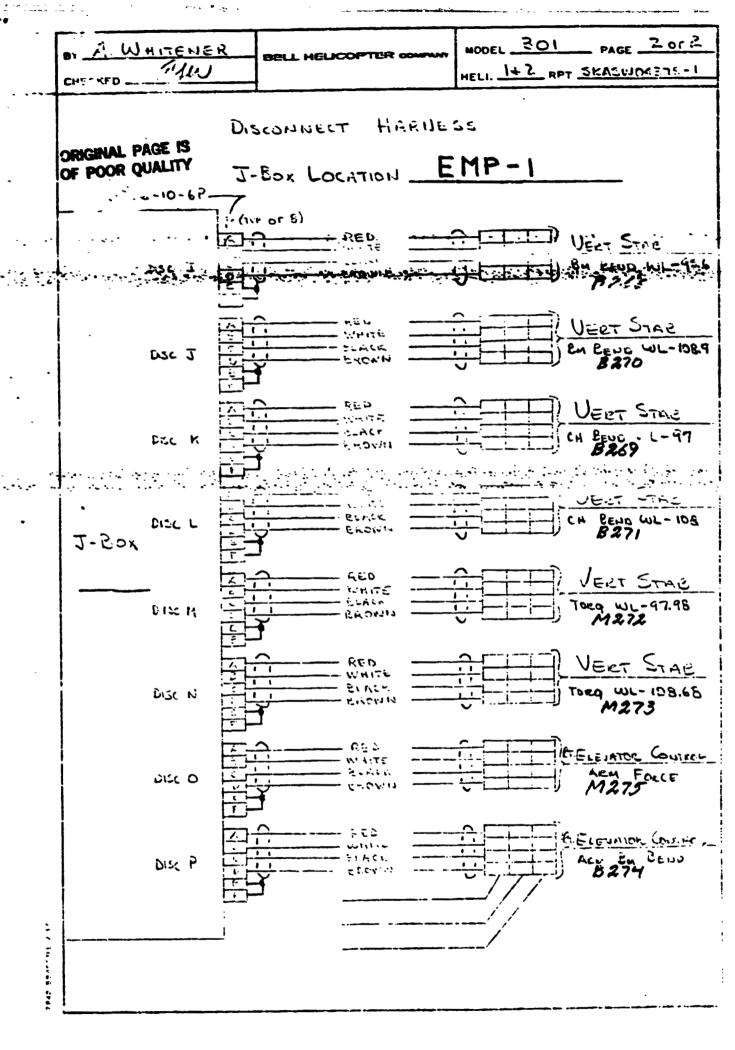
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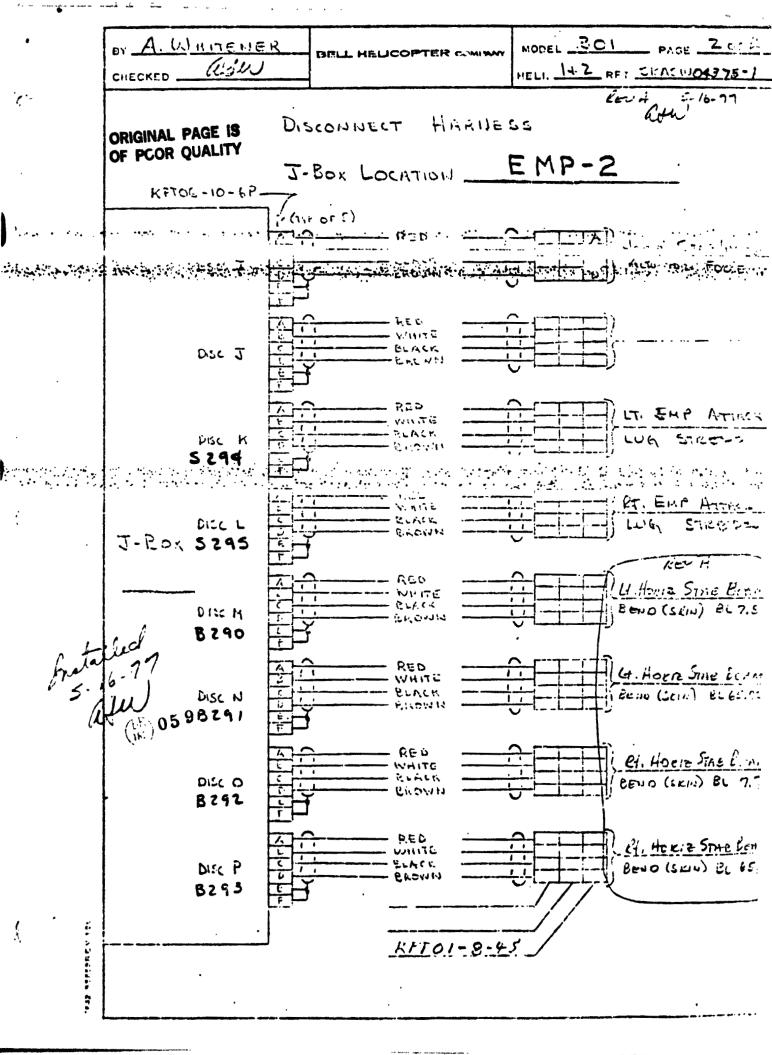
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	NA NO. A 427-11A		RESISTANCE	0 ± 0,4	To a control	LAB. NO.	10554A	
	WURK ORDER		GAGE FACTOR	•		PART NO.		
	REQUESTED BY:		2.11 ±		· I	SERIAL NO.		
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· 1	INSTRUME	INTATION LABORATORY W	ORK SHEET
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AK ORDER A 427	GAGE FACTOR 2.11 ± 0.5	PART NO.
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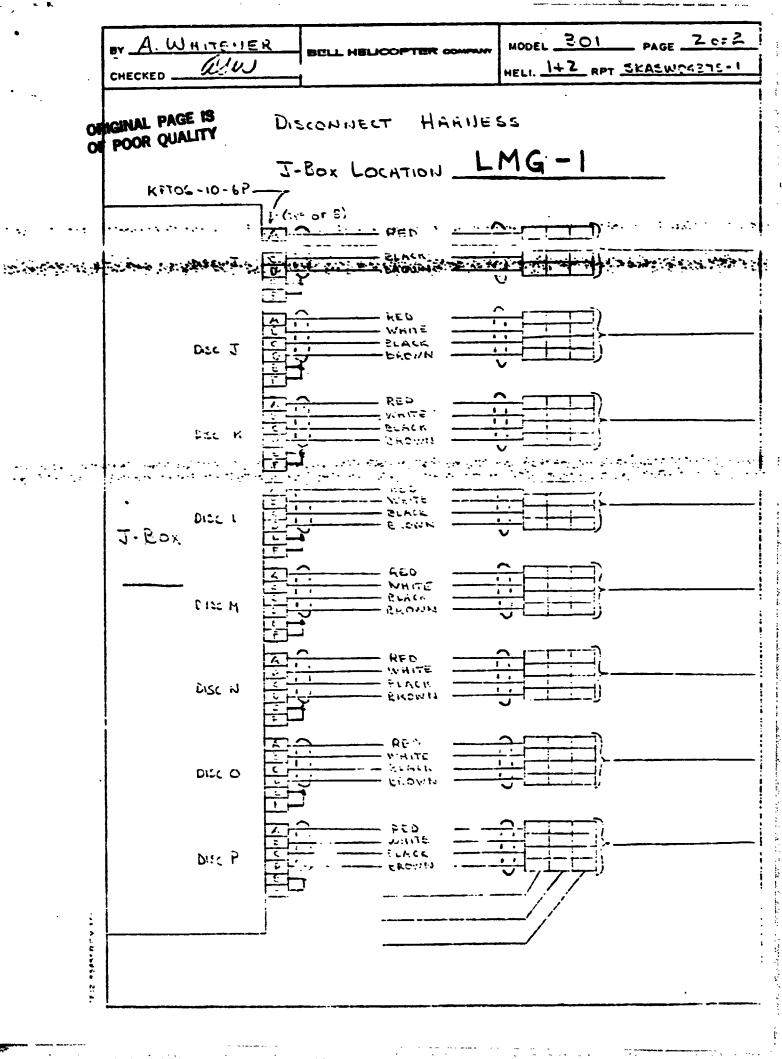
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	ENTATION LABORATURY	WURK SHELI
MODEL NO. 301	EA-06-250MQ-350	688512
EWA NO. 1427-118	RESISTANCE 350 ± 0.4 %	LAB. NO.
r order A 427	GAGE FACTOR 2.13 ± 0.5%	PART NO. 10565-201
REQUESTED BY: A. WHITENER	LOT NO. A 21AD 142	SERIAL NO.
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SIDE VIEW

REMARKS:

INSTALL BENDING BRIDGE AS SHOWN. USE EASTMAN 910 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS IT "CATED. COVER WITH

SHELL 9309. ATTACH FOUR TEN INCH & PRENANT LEADS. ENCASE

LEADS IN VINYL SLEEVING AND TERMINATE WITH

KPT-06-8-4P PLUG.

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Malkullin in itui. La MOULL NO. 301 EA-06-125 TB-350 DLN 688512 RESISTANCE LAD. NO. EWA HO. A427-11B 11330A 350.0 2 0.4 % RK ORDER GAGE FACTOR PART NO. A427 2.07 ± 0.5 % SERIAL NO. REDUESTED UY: Q-A 35 ADO 2 A. WHITENEP. TITLE OF TEST 301 FLIGHT TEST SKETCH: ROD END-HYD. ACTUATO. ORIGINAL PAGE IS LEFT MAIN GEAR OF POOR QUALITY F 313 IE 356 E CA 02 (DA) 01 REMARKS: ... INSTALL AXIAL BRIDGES AS SHOWN_ USE EASTMAN_910_ ... CEMENT. MAKE BRIDGE AT FLAT TERMINAL AS INDICATED. _ COVER WITH SHELL 9309. ATTACH FOUR WIRE TEN INCH _SUPRENANT LEADS. ENCASE LEADS IN VINYL SLEEVING _AND TERMINATE WITH KPT - 06- B-4P PLUG.

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REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-GOD CEMENT. MAKE BRIDGE AT FLAT TERMINAL AS INDICATED, COVER WITH 9309. ATTACH FOUR WIRE SIX INCH SUPERFLEX LEADS. ENCASE LEADS IN VINYL SLEEVING AND TERMINATE WITH MAP PLUG.

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	4STRUME	NTATION LABORATORY V	WORK SHEET
MODEL NO. A 4	27	EA 13 - 062VD- 350V/	SHEET NO. DLN 679447
WA NO. A42	7-11 A	RESISTANCE 350-2	10624A
CORDER A4	27	GAGE FACTOR 2.075 ± 0.5%	PART NO. BHF 50624
REQUESTED BY: A. W.E.	FTE14UF	PAIZBF 61	SERIAL NO.
TTLE OF TEST		301 FLIGHT Test	M 619
KETCH:			

REMARKS:

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AND COIL AROUNE SHAFT FOR SIX REVOLUTIONS
COVER GAGE AREA WITH 7309.

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	TATION LABORATORY	SHEET NO.
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A 427-11A ORK ORDER A 427	GAGE FACTOR	LAB. NO. 102661
EQUESTED BY: A. WHITENER TLE OF TEST	2.08± 170 LOT NO. A->77	300-028-068-
SETCH:	NOTE 301 FLIGHT	TEST
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REMARKS: INSTALL TWO BENDING BRIDGES AS SHOWN.

USE 910 CEMENT: RUN WIRES PER INSTRUCTIONS.

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COVER WITH 9309.

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MODEL NO.		GAGE TYPE	SHEET NO.
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1427-	-118	75100	103/3/
RK ORDER		GAGE FACTOR 2.11±0573	PART NO. 300-028-367-15
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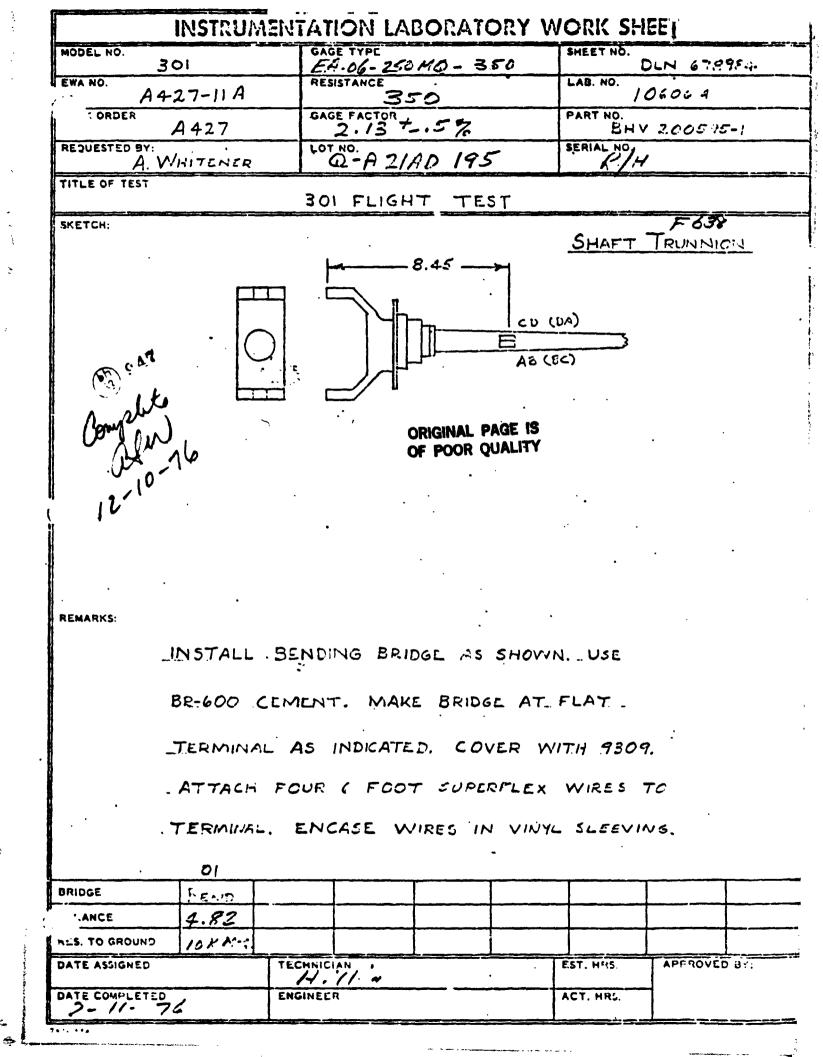
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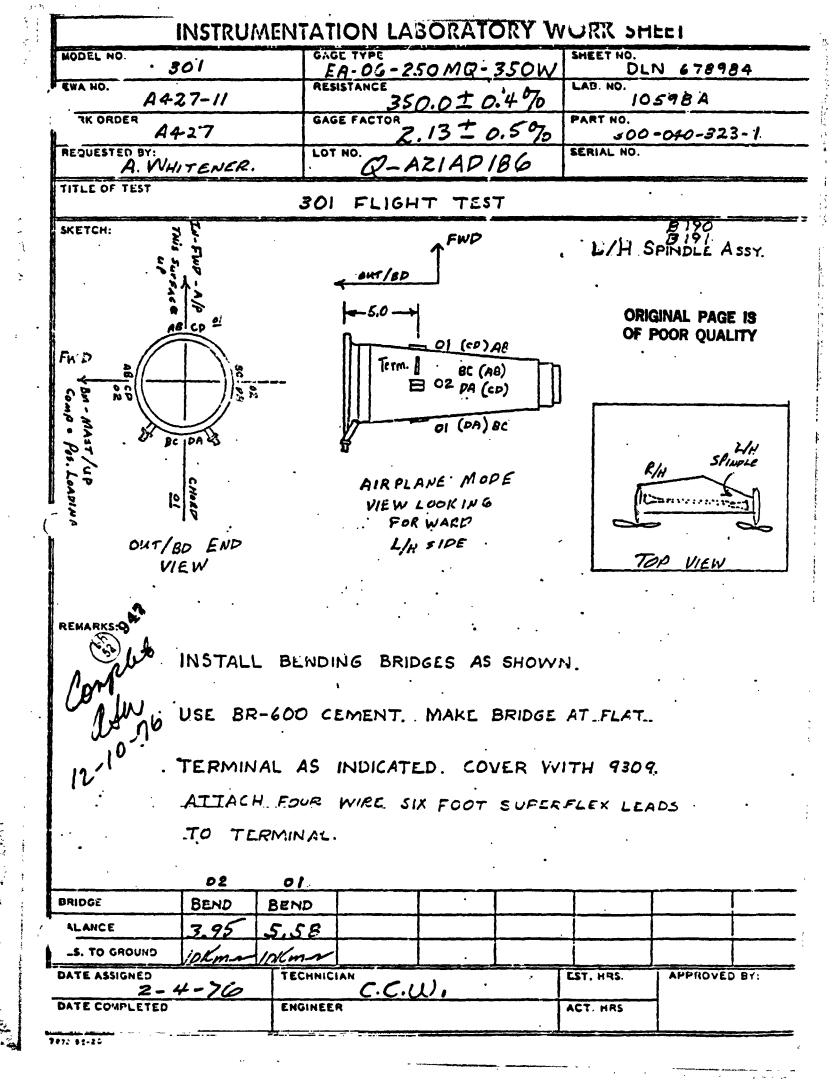
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COVER WITH 9309.

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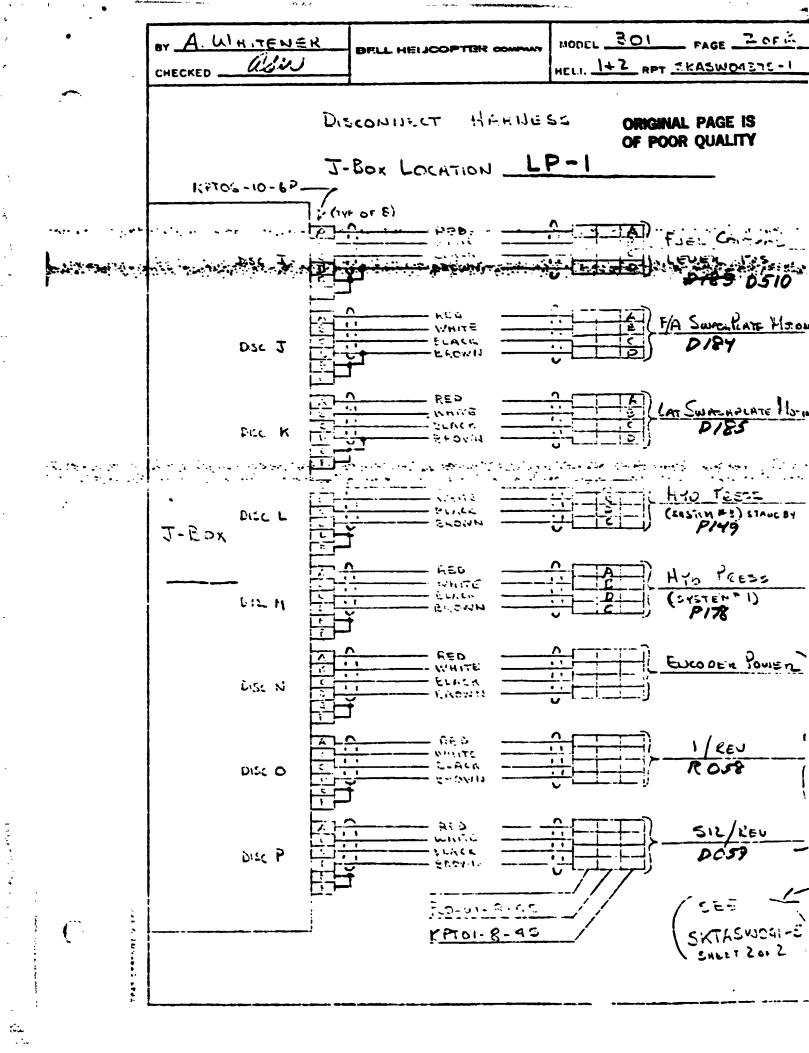




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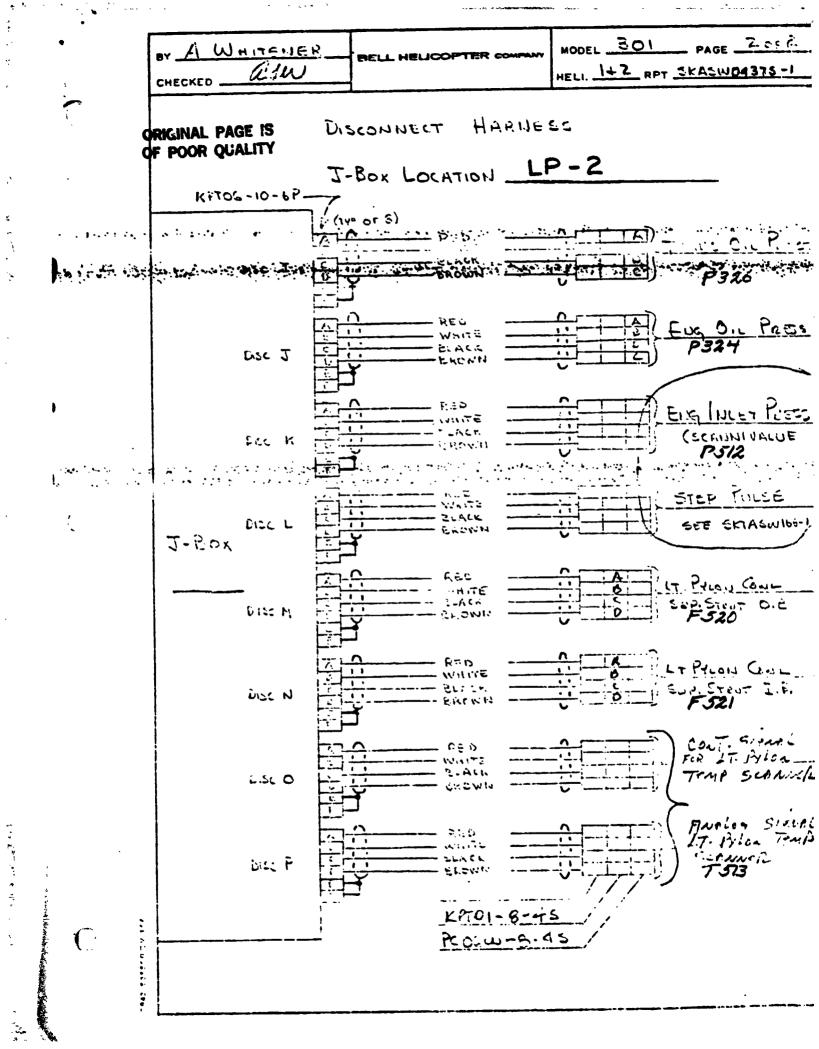
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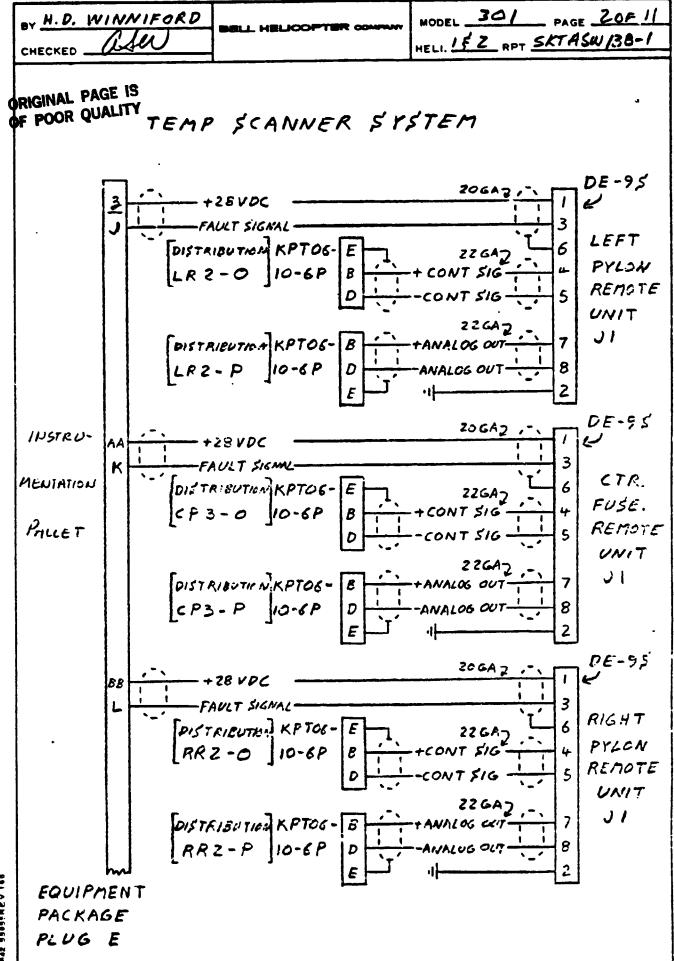
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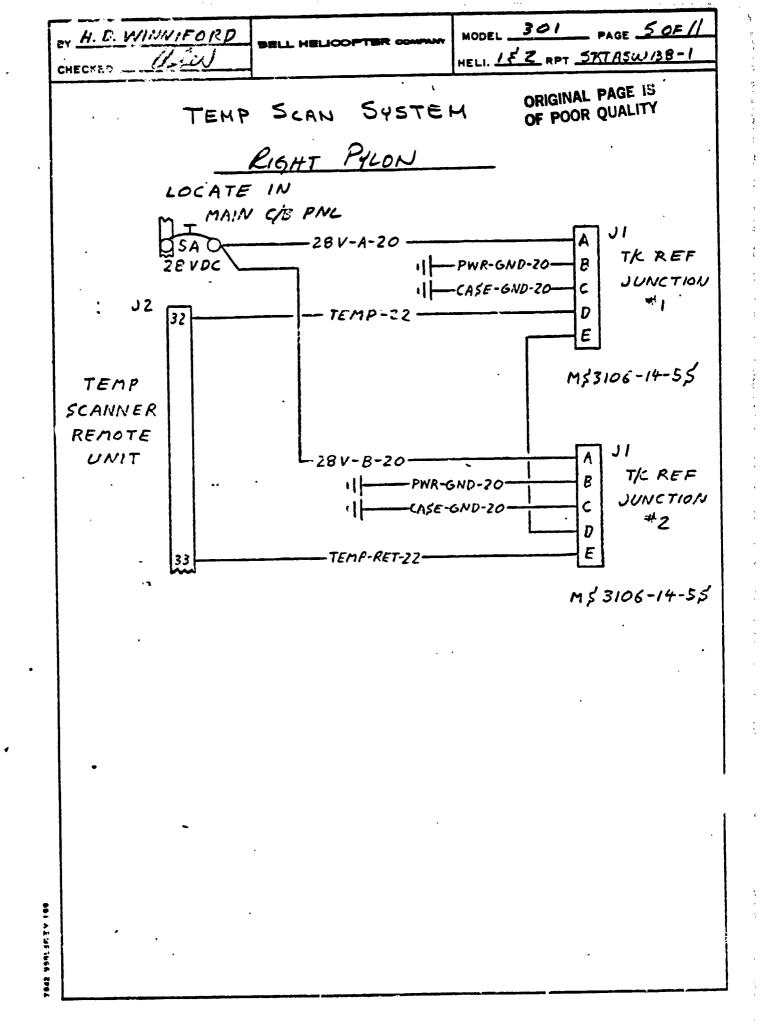
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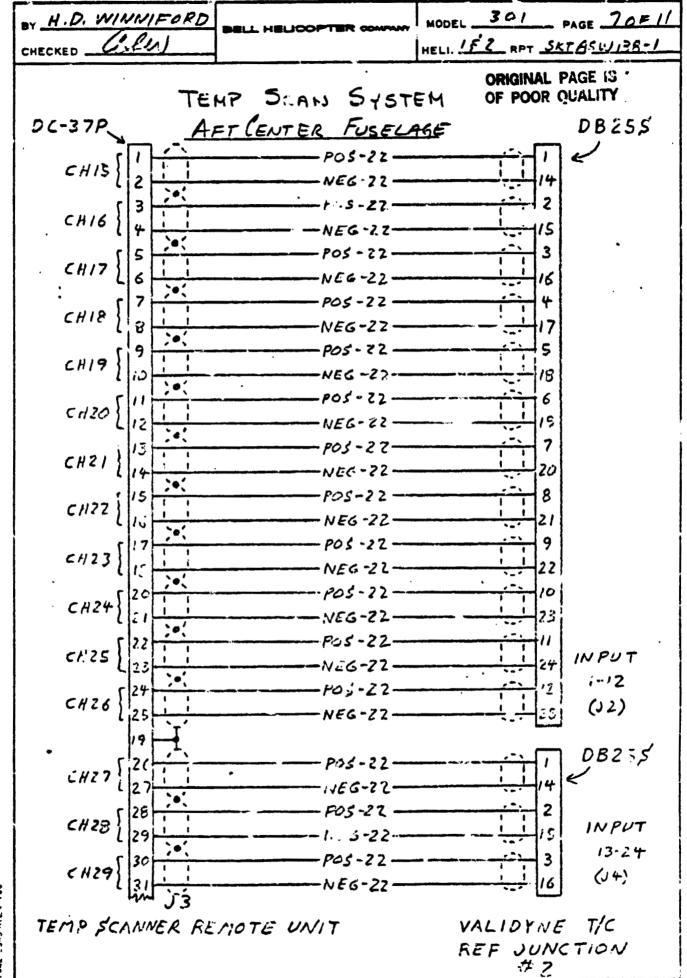
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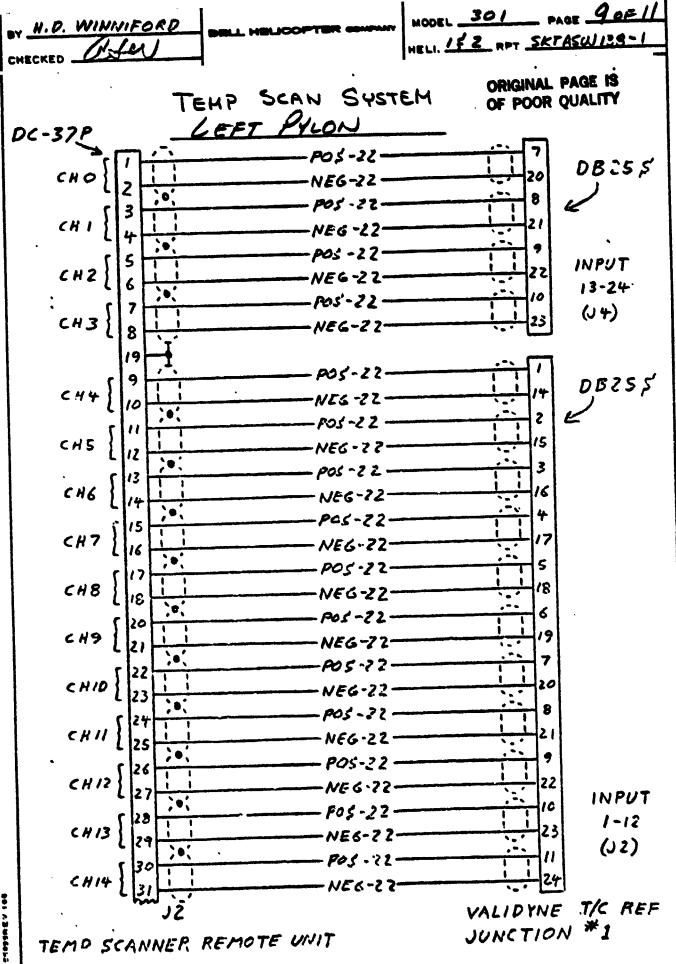
- PAGE 40F/ BY H.P. WINNIFORD 301 MODEL _ HELI. IF'Z RPT SKTASWIBA-1 CHECKED . ORIGINAL PAGE IS TEMP SCAN SYSTEM OF POOR QUALITY DB 255 RIGHT PYLON DC-37P. CHIS 2 CH16 CH17 CH18 NEG-22 CH19 6 CH20 } POS-27 CHZI 20 8 CHZZ NEG -22. POS-22. CH23 NEG-22. 10 POS-22. CH24 ! NEG-22-POS-22-CH25 INPUT NEG-22. 1-12 POS-22. CHZ6 } (12) NEG-ZZ-DB255 -*POS* -22-CHZ7 NEG-22. 2 - POS-22. INPUT CHZS NEG-22-13-24 POS-22-CHZ9 (14) NEG-ZZ-T/C TEMP SCANNER REMOTE UNIT VALIDYNE REF JUNCTION #2



MODEL 301 PAGE 60F 11 W H.D. WINNIFORD HELL I Z RPT SKTASWIZG-1 1/sher CHECKED . ORIGINAL PAGE 15 TEMP SCAN SYSTEM OF POOR QUALITY AFT CENTER FUSELAGE DC-37P -POS-22-CHO DB 25 5 NEG-22. 8 3 POS-22-CHI POS -22 5 CH2 INPUT NEG-22 13-24 POS'-22. CH.3 } (U4) NEG-22-19 POS-22-9 CHY DEZSS' N=5-22 POS-22 2 CH5 NEG-22 3 13 CH6 16 CH7116 NEG-22. POS-22. 5 CH8 118 NEG-22. POS-22. 6 CH9 NEG-ZZ PO5-22 CHID NEG-22 CHII 25 NEG-22 9 POS-22 CH12} NE 6-22 !NPUT 10 POS-22. CH13 1-12 NES-22 23 (JZ)POS-22 CH14 } NEG-27 VALIDYNE T/C REF JUNCTION #1 TE. P SCANNER REMOTE UNIT

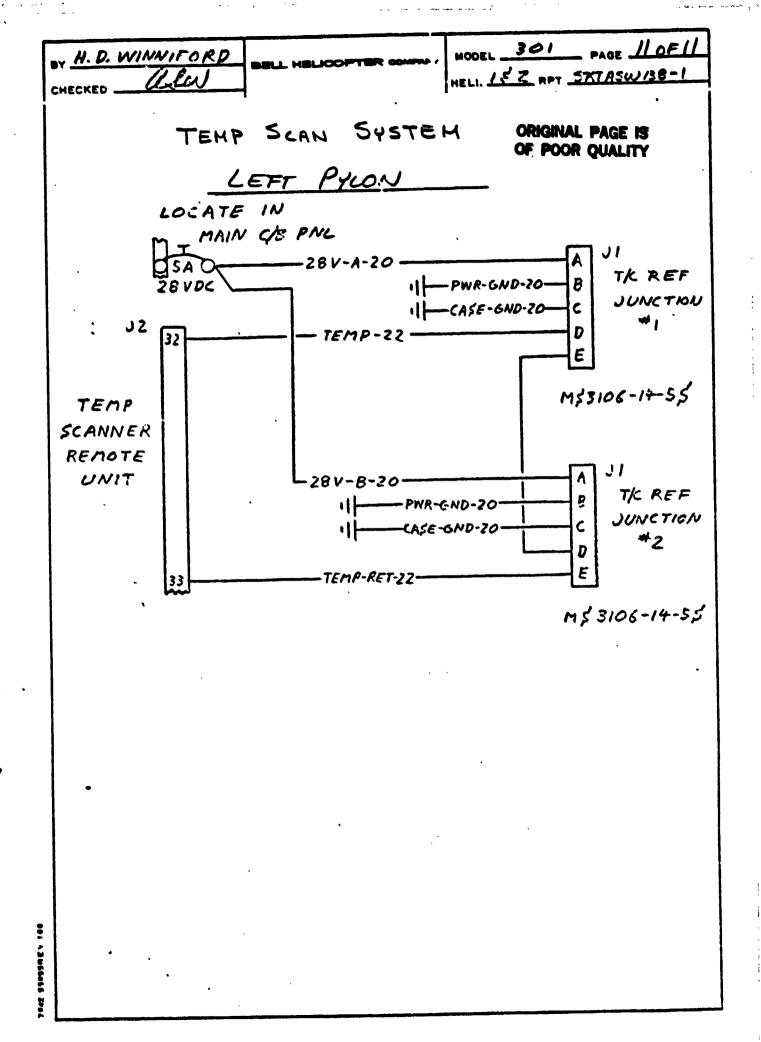


H. D. WINNIFORD _ PAGE _8 OF // MODEL _ HELI. 182 APT STASWB8-1 CHECKED _ TEMP SCAN SYSTEM ORIGINAL PAGE IS OF POOR QUALITY AFT CENTER FUSELAGE LOCATE IN MAIN CE PNL -28 V-A-20 -TK REF II-PWR-GND-20-JUNCTION IL-CASE-GND-ZO-JZ TEMP-22 -M\$3106-14-55 TEMP SCANNER REMOTE UNIT -28 V-B-20-T/C REF II PWR-GND-20 JUNCTION -CASE-GND-ZO-#2 TEMP-RET-22m\$3106-14-5\$ C-3



301 PAGE 100F 1 W H.D. WINNIFORD HELI. IF'Z RPT SKTASWIZE-I CHECKED . ORIGINAL PAGE IS . TEHP SCAN SYSTEM OF POOR QUALITY LEFT PYLON DC-37P. DB 255 CHIS CHI6 } CHIT CH18 CH19 CHZO CHZI CHIZZ NEG -22-CH23 POS-22 CH24} NEG-22 CH25 INPUT 1-12 CHZ6} (12) NEG-ZZ. DB255 POS-22-CHZ7 NEG-22 POS-22 2 CH25} INPUT NEG-22-13-24 CHZ9 (44) NEG-22 TEMP SCANNER REMOTE UNIT T/C VALIDYNE REF JUNCTION #2

3035REV 166



	INSTRUM	ENTATION LABORATORY	WORK SH	EET
MODEL NO.	301	EA-13- 125 TB - 350	SHEET NO.	13739 54 _
EWA NO.	727-11A	350 T - 0.4%	LAB. NO.	GOA .
Y ORDER	÷27	GAGE FACTOR 0.5 %	PART NO.	001-852-1
REQUESTED BY:	YHITCHEE	QA 18AF48	SERIAL NO.	
TITLE OF TEST		301 FLIGHT TEST		
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12-10-	.76	•		<i>:</i>
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iemarks: IN	STALL AXIA	AL BRIDGE AS SHOWNUSE	BR-600 CE1	MENT.
M	AKE BRIDGE	AT_FLAT_TERMINAL AS IN	NDICATED. C	OVER
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.w	NTH 9 309.	ATTACH FOUR WIRE SIX	INCH JURER	RFLEX
.L	EADS. ENC	ase <u>leads in vinyl</u> gleen	ING AND	
· . T	ERMINATE	WITH MAP PLUS.		
•	01	•		
BRIDGE	AXIAL	·		
-ALANCE	4.80			
TO GROUND	Olinos		Tree var	APPROVED BY:
DATE ASSIGNED 2-19-74	<u></u>	TECHNICIAN H. I.I.	EST. HRS.	APPROVED ST:
DATE COMPLETE 3-19-		ENGINEER	ACT. HRS.	

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11431145		
MODEL NO.	GAGE TYPE EA - 04 - 06 2 TZ - 350	SHEET NO. DLN 688512
EWA NO. A427-11B	RESISTANCE 350 Q	LAB. NO. 11366 A
NORK ORDER A427	GAGE FACTOR 2.07± 1.0%	PART NO. 41002120
REQUESTED BY: A. WHITENER	D- 134 8000	SERIAL NO.
TITLE OF TEST		

301 FLIGHT TEST

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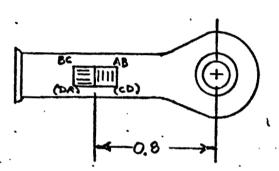
MARKS:

F188 AL ACTUATOR

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10/18/15



INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED. COVER

WITH 9309. ATTACH FOUR TEN INCH SUPERFLEX

LEADS. ENCASE LEADS IN VINYL SLEEVING AND.

TERMINATE WITH KPT-06-8-4P PLUG.

DATE COMPLETED

173-14-76

CINGINEER

OI

TECHNICIAN

INSTRUMENTATION LABORATORY WORK SHEET

MODEL NO.	GAGE TYPE EA06 - 125 TB- 550	SHEET NO. DLN 678984
A 427- 11A	RESISTANCE 350-2	LAB. NO. 106094
WC ORDER A427	GAGE FACTOR ± 0.5%	PART NO. 300-010 -417-1
REQUESTED BY: A. WARTENER	LOT NO A 35 A DO 2	SERIAL NO.

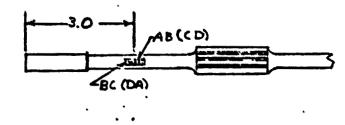
TITLE OF TEST

301 FLIGHT TEST

SKETCH:

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REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600
CEMENT. MAKE BRIDGE AT FLAT TERMINAL AS
INDICATED. COVER WITH SHELL 9309.

DATE COMPLETED	11-76	ENGINEER		_	^	CT, HRS.	7	
DATE ASSIGNED		Fill - C.C.W.			EST, HRS.		APPROVED BY:	
RES. TO GROUND	1.40mm		<u> </u>	<u>. </u>				
ANCE	4.18				•			
PRIDGE	AXIAL							
`	01							

MODEL 301 A WHITENER HELI. 1+2 RPT SETASW166-1 CHECKED . ORIGINAL PAGE IS SCANIVALUE CONT ROL WIKING OF POOR QUALITY CKPTO6-10-6P and the growing states LP-2K SCANI-MARK SAME ON BOTH SIDES -VALUE 4.6" JUHIPER _KPO6-14-15P & KPTO6-12-837 1 CC GREEN INSTR. الاحصاب E GCAY PLUG בפשעי/שאייצ HH G REL/Warte # A G SCAN-CODE - H-SZ YELLOW/WHITE KK -K7701-14-155 Cef: # 1 | EKP106-8-47 SKASW 05575-9 WHITE WHITE Rox C C BLACK 1240 GREEN +28 V DC C 28 RTN KPT06-8-35 #1 CONTROL BOX MOUNTED ON LEFT 14-ON * 2. LISE Z CONCUCTOR, ZO GAGE DRANGE WIRE 43-USE 4

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	KP701-8-4P
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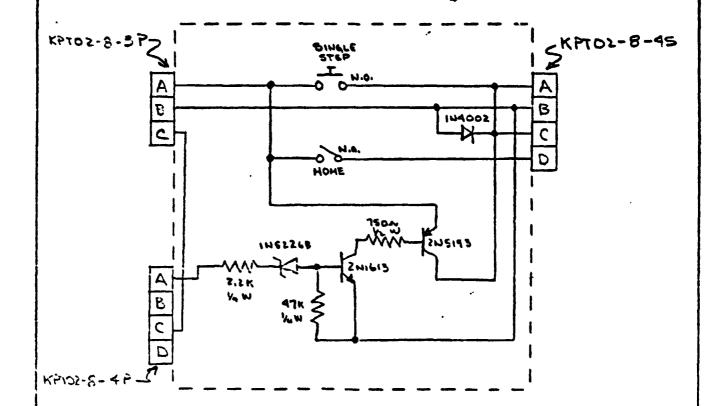
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SCANIVALUE CONTROL BOX

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ASWSK 32576-1

XV-15 (MODEL 301) SCANNIVALVE SETUP SHEET

Engr. WHITENER VINNIFORD	Ship No.	301#1	Date 11-19-76
Tech. WALKER/HILLIN			
Test Purpose GN PUN To	73.7	EWA A 43	DLN

LEFT ENGINE INLET

PORT NO.	LOCATION						
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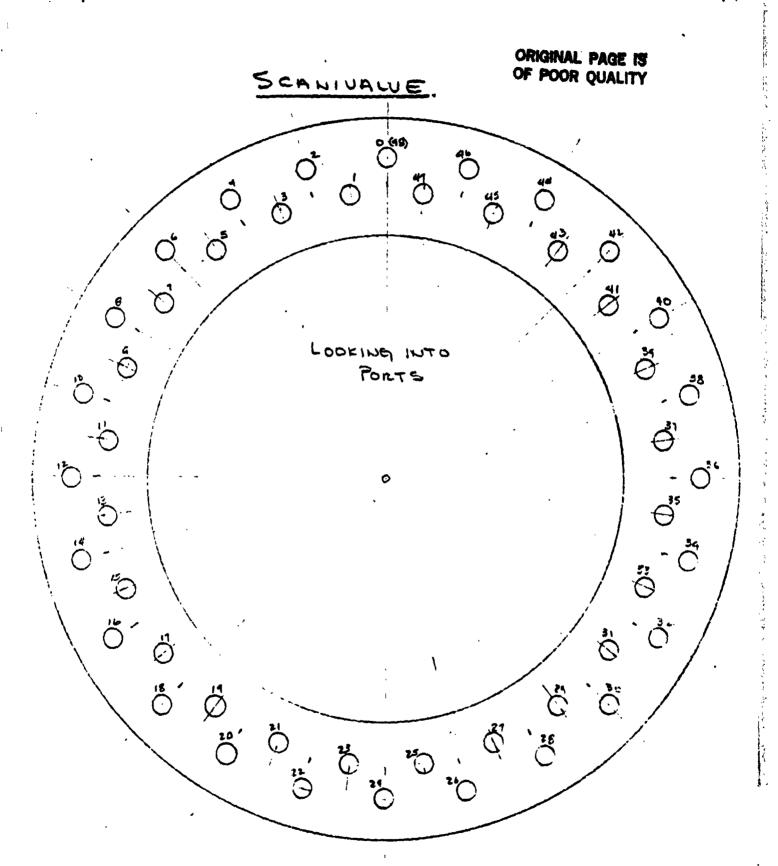
XV-15 (MODEL 301) SCANNIVALVE SETUP SHEET

Engr. WHITELLER WINNIFORD	Ship No.	3014/	Date _//	-19-76
Tech. WACKER HILLIN	Flt. No.		G/R No.	
Test Purpose Gun Run		EWA <u>A43</u>	8 DLN	

LEFT ENGINE INLET

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A. WHITENER	BELL HELICOPTER SOMMY	MODEL 30/ PAGE 3006
CHECKED		RP1 ASWSK32576-1



OY A. WHITEHER MODEL PAGE 40F 6 RPT ASWSK 32576-1 501 INPUT RAKE ENGINE (BELL MOUTH) ORIGINAL PAGE IS OF POOR QUALITY e I 37 - STATIC (BELL HOUTH Ö- Z -0-3 TOP 3200 40 VIEW LOOKING ENGINE. INTO 0-00-0 60. ~280° BELL HOUTH 28 240° 25 C 0 0 14 13 0 160. 2000 24 O 200 230 22 C ZI C

WHITENER MODEL 301 PAGE SORL ----AT ASWSK 32576-1 CHECKED. TAIL PIPE STATIC PRESSURE ORIGINAL PAGE IS TRANSMISSION OF POOR QUALITY 315 VIEW LOOKING LIAT OTLI P. 25 2250

MODEL 301 HELI. 1+2 APT A SWEK 3 25%-1 CHECKED . ENGINE COWLING TOTAL AND
STATIC PRESSURE VIEW LOOKING AFT ORIZINAL PAGE IS OF POOR QUALITY. LT. RT. O.B. 0.8.

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BY A. WHITEHER

CHECKED.

BELL HELICOPTER COMPANY

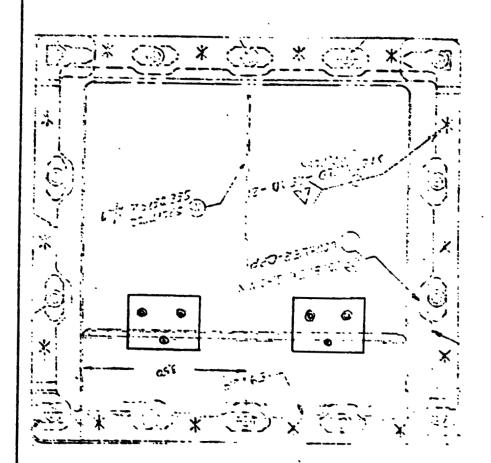
MODEL 301 PAGE 64 076

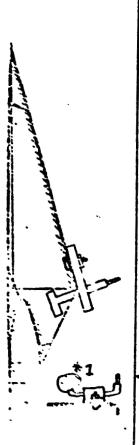
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ENGINE COMPARTMENT AIR SCOOP

LEFT ENGINE

TOTAL AND STATIC PRESSURE PROBES





VIEW LOOKING INTO SCOOP



41 HOUNT STATIC PICKUP AT CENTER LINE BETWEEN THE TWO (2) SCOOPS

ay M. WHITE	NET.	m I MELICOPTER	, TANTAGE	MODEL 301 PAGE 10F 2
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	3	Const	_^ - <u>}3</u>	PCZ HYO COOLER FLUID OUT
TEUP	4	- CONST		ECH COOLER BLEED AIR IN
REFLEWIL	<u>।</u>	- Italy		FLUID LIVET TO ENGINE
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INPUT	7	- 1850		ENGINE ACCESSORY HOUSING
Paris#1	6	— (nen ——	_×®	ENGINE GNITION UNIT
(cANI 1-12)	9	— 150% —— — (01%7 ——	_ <u>(</u> 9	ENGINE FUEL CONTROL
	10	— Inon —	~ <u>,</u> @	ENG. KNITER SOLEHOLD VAIVE
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A. WHITEHER. 201 HELI. 1+2 APT SKASU178175-1 11 40 CHECKED . TEMP SCANNER FUSELAGE THERMOCOUPLES [DB-255 REFERENCE JUNGTION BIANT WING INDONED CONSCRION STILLOLE HAUGER BEARING TZUO BIGHT WIND OUTGORED CROES 1804 SHART HAUGER BEARING TONET BIGHT WILL IN BOARD CROSS SHAFT HANGER BEARING KON LEFT WINH IN BORRD (MOSS CONST SHAFT HAUGER PEARING IRON TEMP TEUC) LEFT WING ONBORED CROSS S Icon REFERENCE SMAFT HANGER BEARING 18 CONST LEFT WING INBOARD CONVERSION EPINDLE HANGER CEARING 6 IRON JUNCTION Tzual IRON INPUT 20 72010) Pwg#1 1 Kon 21 CONET (CHAIS 1-12) a ICON 22 くひいろて 10 Ikou (さいらし 11 ICON 24 しいいって IRON いいいり ORIGINAL PAGE IS

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REFERENCE	4 17	— IRON — — Const —			
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(CHAN 13-24)	20			,	•
CCHAN 12-C.7	15	ALUMEL CHROMEL	X		
	72	— ALDMEL — —— CAKOMEL —	X		
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	12	ALUMEL-			
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A WHITEHE	K. BELL H	ELICOPTER GOMPANY	MODEL 301 PAGE 10FZ
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K	-02 - ZS		FERENCE JUNCTION # 2
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(CHAN 1-12) 9.	1:		BLOWER AIR-OWNER OF HEAT EXCHANGE
10	1	KON	Teaus. Oil Ium Cooler
23	1	con	TRANS. OIL OUT OF COOLER
29		0115T)
25 13		7200	
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BY A. WHITE		BELL HELICOP	TER common	MODEL 301 PAGE 2012
CHECKED				HELI. 42 RPSASW28175-1
	٦	TEMP S	CAUNE!	OF POOR QUALITY
·	LEFT	- Pylon	J THE	ermo couples
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	1	IRON Coust		•
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TEMP	3	lron Coust -		LUE! NO SPENDE DEDKING
REFERENCE	17	- IRON Court -		
JUNCTION	18	— IRON Const -		
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(CHAN 13-24)	21	Сӊкомеь - Агымег - Снсэмег -		
	22 10	ALUMEL CHROMEL -		
	23	ALUMEL -	X 	•
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,	25 /3	ALUMEL-	^	
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7842 89895RKV 186

DY A. WHITI		BELL HELICOPT	TER COMPANY	MODEL 301	PAGE 90F 9
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	7	TEMP SCA	inner		IL PAGE IS R QUALITY -
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·	<u> </u>	IRON -		stunctà Hender Sivrt mind ing	
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	3	Const -		BIGHT WING IN SHAFT HANGER	Board Cross
	16	CONST -	· ` ` ` '	eff winh 148	ARO (MÓSS
TEMP	17	Const	M-	SHAFT HAUGER SERT WING OUTS	
REFERENCE	18	ICON CONST	X		
JUNCTION	6	- IRON -		FEET WINE INDE	
INPUT .	19	Coust IRON -			
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Peus#1	21	— Court —		· · · · · · · · · · · · · · · · · · ·	-
(CHAIS 1-12)	9	- IRON -	<u></u>	<u> </u>	7
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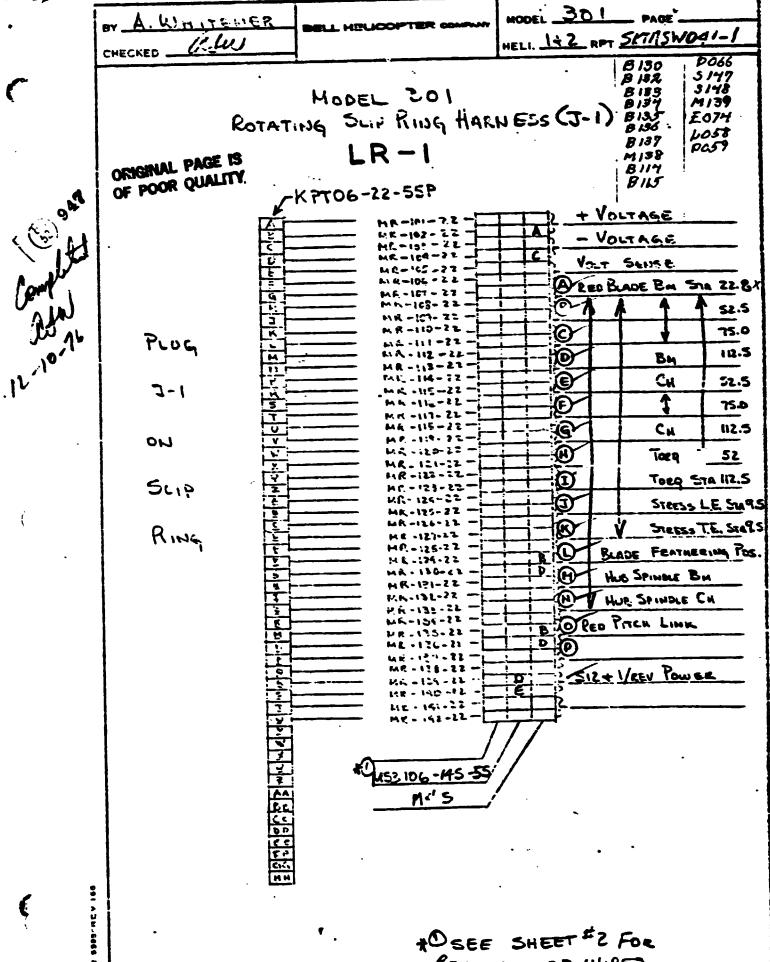
INSTRUMENTATION LABORATORY WORK SHEET FTO I - NO. SHEET NO. DLN 678984 7: - 13 - 125 TB - 350 301 EWA NO. 1427-114 10661 A ORK ORDER GAGE FACTOR たしなる 301-860-734-3 A427 REQUESTED BY: SERIAL NO. LOT NO. O-A 18 AF 48 A. WHITENER. TITLE OF TEST 301 FLIGHT F 520 SKETCH: ORIGINAL PAGE IS TUBE ASSY - FRAME OF POOR QUALITY (CD) AB IIIE BC (DA) REMARKS: INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT. _MAKE BRIDGE AT FLAT_TERMINAL AS INDICATED. COVER WITH 9309. ATTACH FOUR WIRE SIX INCH SUPERFLEX LEADS. ENCASE LEADS IN VINYL SLEEVING AND TERMINATE WITH MAP PLUG. BRIDGE AXIAL 4.64 BALANCE CAUCAS OT .23. 10x res DATE ASSIGNED TECHNICIAN APPROVED BY: EST, HRS. 2- 19-*PI、7/*, il ENGINEER DATE COMPLETED ACT. HRS.

2-20-74

7972 99476

INSTRUMENTATION LABORATORY WORK SHEET GAGE TYPE DLN 678984 301 .A-13-125TB-. 350 EWA NO. A427-11A + 0.4% M0658A 356 N TK ORDER GAGE FACTOR t 1.0% A427 301-860-934-1 2.12 REQUESTED BY: SERIAL NO. A. WHITENER Q-A 18AF 48 TITLE OF TEST 301 FLIGHT TEST SKETCH: F521 TUBE ASSY - FRAME ORIGINAL PAGE IS OF POOR QUALITY (CD) AB IIIE BC (DA) INSTALL AXIAL BRIDGE AS SHOWN LEE BR-600 CEMENT. -MAKE BRIDGE AT FLAT_TERMINAL AS INDICATED. COVER. WITH 1309. ATTACH FOUR WIRE SIX INCH SUPERFLEX LEADS_ ENCASE LEADS IN VINYL_SLEEVING AND TERMINATE WITH MAP PLUS, 01 BRIDGE BALANCE HES. TO GROUND 10 K MG DATE ASSIGNED TECHNICIAN EST, HRS. APPROVED BY: /.'. !!. N . 2- 19-76 ATE COMPLETED ENGINEER ACT. HRS. **₽**_0.76

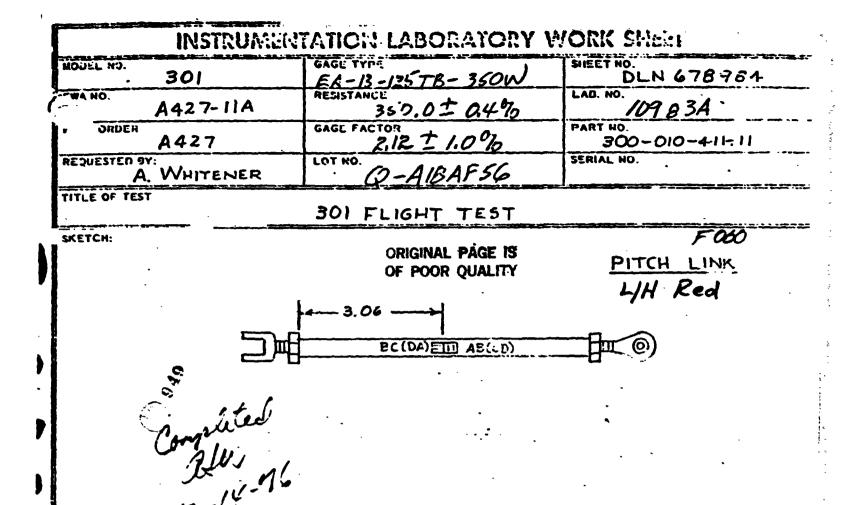
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REMAINUER OF WIRES

	- A. WHITEH	ER			MODEL 301	_ PAGE
ł	/// //		BELL HELDOOP LEV OF		HELL 1+2 RPT	SKTASWOCI-2
. !	CHECKED	7ATO	Model 301 ING SLIP RING LR -2 (PT06-22-55P	tlar		8140 81.2 B141 8193 BH3 8194
	_ :	[]			TAR - Vou	TAGE
	•		MK - 202 - 22 - 4K - 205 - 22 - 4K - 205 - 12 - 4K - 205 - 12 - 4K - 206 - 22 - 4K - 206 - 22 - 4K - 207 - 22			PALA BEJD
	_				1	PEEP. Bend
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	7-2	P			B Gine	E FINA POS. EZGTED HON TOEN PENT
	ON					Pitch Line
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REMARKS:

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

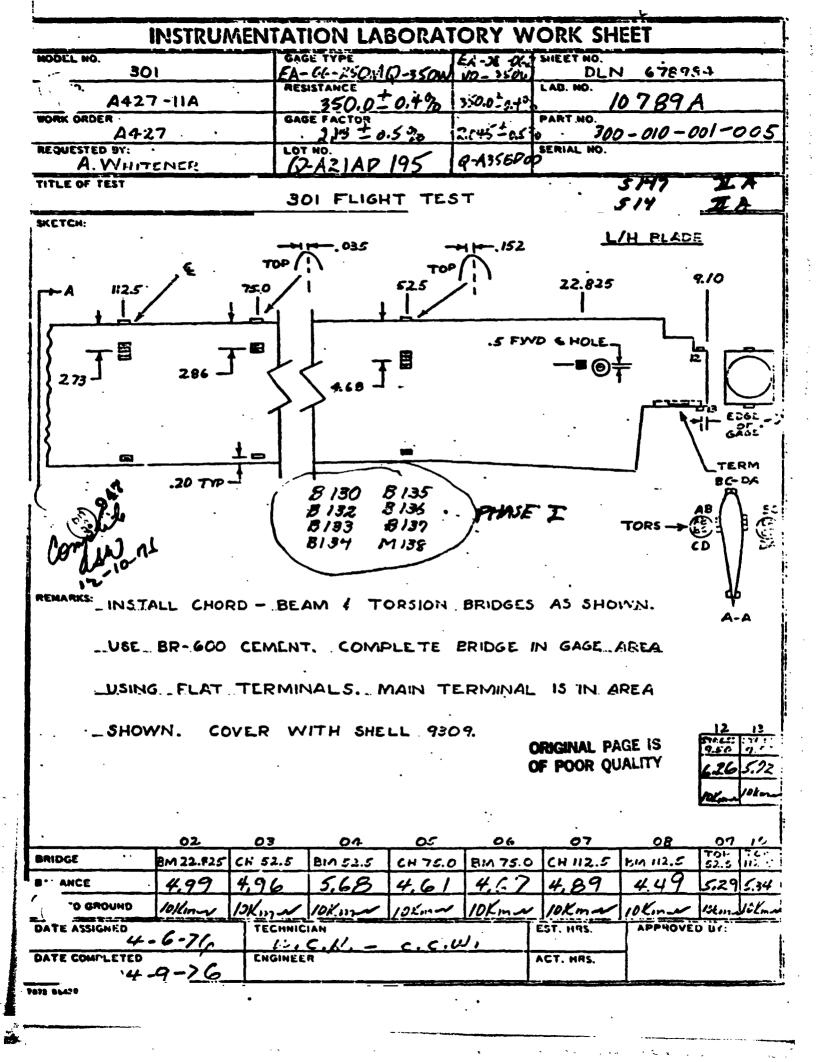
COVER WITH 9309. ATTACH FOUR WIRE SIX

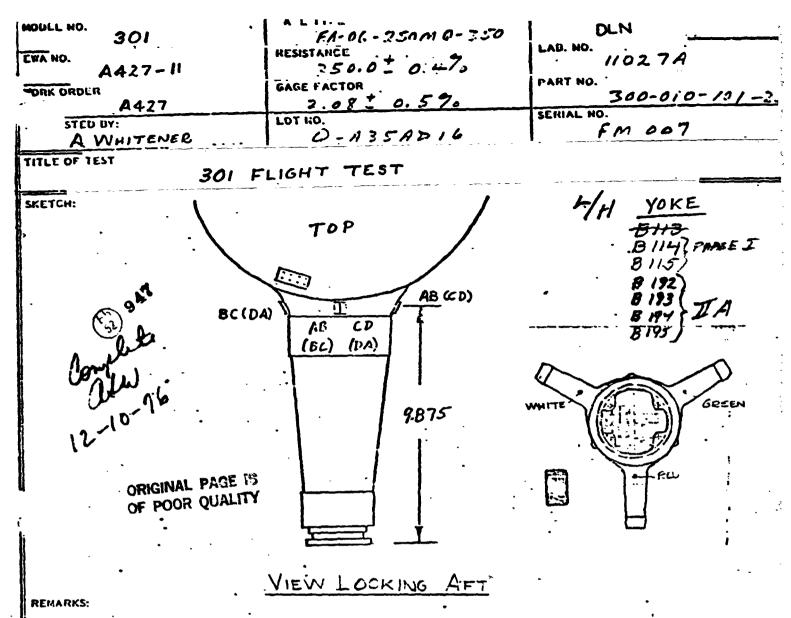
INCH SUPERFLEX LEADS. ENCASE LEADS IN YINYL

SLEEVING AND TERMINATE WITH MAP PLUG.

	01					
BRIDGE	AXIAL		·			
AL ANSE	3.66		•			
TO GROUND	Ikma					
	5-0-16	TECHNISIAN /2/0/1/4		EST, HUS.	APPROVE	υ UY:
DATE COMPLETED	6-8-76	ENGINEER		ACT, HRS.		

· .





CLEAN GAGE AREA PER. TITANIUM INSTRUCTIONS. INSTRUC BEAM AND CHORD BRIDGES ON THREE SPINDLES. U.S. BR-600 CEMENT. COMPLETE BRIDGE AT POST TYPE TERMINALS ON TOP SURFACE. COVER WITH SHELL 9309

	01 R	ED 02	03 h	MITE OF	7,	OS GR	
DRINGE	CHORD	BEAM	CHORD	BEAM		CHORD	BEAM
DALAHSE		4,27	6.41	5.05		5.18	4. 85
S. TO GROUND	IUEMA			1-	-	-	1,0 × 11.5
DATE ASSIGNED 6-22-7		TLCHNICIAN Hocks		,	EST, HRS.	VORMA	J 131'.
BATE COMPLETED		LNGINER			AUT. HRS.		

*

INSTRUM	ENTATION LAB	ORATORY W	ORK SHEET
MODEL NO.	GAGE TYPE W EA-CG-750MO-350	EA-06-0624D-250	SHEET NO. 678.984
FWA NO. A 427-//A	RESISTANCE	o~	LAB. NO. /0999A
NO ORDER A 427	GAGE FACTOR 2.13±0.5%	2.04 0.5%	PART NO. 300-040-/80
REQUESTED BY:	LOT NO	Q.1358D00	SERIAL NO. B 12 106
TITLE OF TEST		FLIGHT TI	EST SHIP# 1
SKETCH:	02 (AB) CD	/H /3.2 /2.0	PARA PARA PARA PARA PARA PARA PARA PARA
why he		ORIGINAL PAGE OF POOR QUALITY	Э Y

REMARKS: INSTALL BENDING AND TORSION BLIDGES AS SHOWN.

USE BR-600 CEMENT, MAKE BRIDGE AT FLAT

TERMINAL AS INDICATED. COVER WITH 9309.

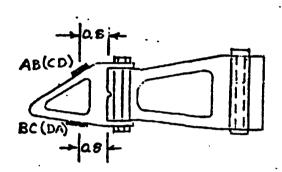
<u>/2.0</u> 12.0 /3. 2 13.2 TORS-03 PA 1. A - 02 BRIDGE PERP-01 3 2 5.03 ANCE OKM.A RLs. TO GROUND OKMin VOKMA APPROVED BY: EST, HRS. TECHNICIAN DATE ASSIGNED Hozzis_ ACT. HRS. DATE COMPLETED 06-12-76

The second secon	NTATION LABORATORY V	and the same and t
MODEL NO 301	EA-13-250MQ-350	SHEET NO. DLN 679994
EWA NO. AC27-11A	RESISTANCE 3502 t 0.4%	LAB. NO
A427	GAGE FACTOR + 0.5 %	PART NO. 300-010-451-1
REQUESTED BY: A. WHITCHES	Q-A 18 AF 56	SERIAL NO.
TITLE OF TEST	301 FLIGHT TES	Т
SKETCH:		£ 142

DRIVER ASSY

ORIGINAL PAGE 15 OF POOR QUALITY

Control 16



REMARKS:

JNSTALL BEND. BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED. COVER.

W'TH 9309. ATTACH FOUR WIRE SIX INCH SUPERFLEX.

LEADS. ENCASE LEADS IN VINYL SLEEVING AND

TERMINATE WITH M4P PLUS.

DATE COMPLETED 2-13-7	۲	ENGINEER	ACT. HRS.	7
DATE ASSIGNED		TECHNICIAN .	 EST. HRS.	APPROVED BY:
RL TO GROUND	10 Kares			
LARCE	5.32			
BRIDGE	BEND			
<u></u>	C/	ı	 •	

	RUMEN	AHUN LABURATURY W	YORK SHEET
MODEL NO.		EA-13-125TB-350W	SHEET NO. DLN 4789 F.L.
WA NO. A42?	-11A	850.0 ± 0.470	LAB. NO. 10629 A
WORK ORDER A42	7	RIZ 1 1.0 %	PART NO. ECID-010-4-11!
REQUESTED BY: A. WHIT	ENER	Q-AIBAF 4B	SERIAL NO.
TITLE OF TEST		301 FLIGHT TEST	
SKETCH:		ORIGINAL PAGE IS OF POOR QUALITY 3.06 — AB(CD) EC(D4)	PITCH LINK L/H SHEETU YELOW
12-10-76			

REMARKS:

INSTALL AXIAL BRIDGE AS SHOVYN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

COVER WITH 9309. ATTACH FOUR WIRE SIX

INCH SUPERFLEX LEADS, ENCASE LEADS IN VINYL

SLEEVING AND TERMINATE WITH MAP PLUG.

· ·	61		•			•
RIDGE	AMAL					·
LANCE	14.95					
RES. TO GROUND	10Km	·				
DATE ASSIGNED	2-16	TECHNICIAN C.C.	W		EST, HRS.	APPROVED BY:
DATE COMPLETED	6-76	ENGINEER		:	ACT, HRS.	

•	•	
INSTRUM	ENTATION LABORATORY V	WORK SHEET
MODEL NO.	EA-13 -125 TB 350W	SHEET NO. DLN 67505.
A427-11A	350.0±0.4%	106 26A
WORK ORDER A427.	2.12 = 1.0%	PART NO. 500-010-4-11-11
REQUESTED BY: A WHITENER	LOT NO. O-AIBAF4B	SERIAL NO.
TITLE OF TEST	301 FLIGHT TEST	
SKETCH:	ORIGINAL PAG OF POOR QUA	LITY PICE LINK
	3.06 >> (DA)	CREEN GREEN
Control	•	

REMARKS

INSTALL AXIAL BRIDGE AS SHOWN. USE BR-600 CEMENT.

MAKE BRIDGE AT FLAT TERMINAL AS INDICATED.

COVER WITH 9309. ATTACH FOUR WIRE SIX

INCH SUPERFLEX LEADS. ENCASE LEADS IN VINYL

SLEEVING AND TERMINATE WITH MAP PLUG.

	31	•			,	
RIDGE	ANIAL					
LANCE	4.28					
RES. TO GROUND	rokina		,			
DATE ASSIGNED 2 -12	2-76	TECHNICIAN C.C.	w. –		EST, HRS.	APPROVED BY:
DATE COMPLETED		ENGINEER		:	ACT. HRS.	7

CALIERATION SHEET LAE ENGINEER: WH WHITENER DATA ANALYST: MARY LEU WRIGHT LAB TECHNICIAN: ANDERSON

LAB NO. : 1026: CAL DATE: 11-9-SERIAL NO: NONE P/N: 300-028-068

ORIGINAL PAGE 19 OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

RIGHT PART NAHE: LEFT FAND FLAPERON

CHANNEL: U4 - INBOARD BENDING. STATION 24.95.

CALIERATE EQUIVALENT: 8617 IN-LES UNIT CAL = 9794 IN-LBS/HV/V

ERIDGE FES. : 350.00 HAGE FACTOR : BRIDGE VOLTO: PRF CALO : POST CALO : 2.080 6.00 5.28 5.28

JACK FAC. : NONE LEVER ARM : 24.200 IN.

CAL RES. : 100

LGAUS-POUNDS	LOADS-IN-LES	OUTPUT-MV	VARIATION FROM FILLIVOLTS	MEAN LINE
O	0	0.000	0.004	7
0.00	0.00	0.000	-0.004	- 7
10.QC	242.00	0.150	-0.003	+- Å
20.00	484.00	0.310	0.009	15
20.00	725.00	C. 45 C	0.001	Ĩ
40.00	968-00	0.600	0.003	ě.
59.00	1210.00	0.740	-0.006	~9

MAXIMUM CALIBRATION LOAD: 1210 IN-LBS · = = = (= = =)

mulic

BHC PROGRAM FCCR33 - RUN DATE: 11-13-70

CALIERATION SHEET LAB ENGINEER: BH **WHITENER** DATA ANALYST: MARY LEU WRIGHT LAB TECHNICIAN: JARVIES

LAB NO.: 10266 CAL DATE: 11-9-SERIAL NO: NONE P/N: 300-026-068

ORIGINAL PAGE IS

PROJECT: 301 FLIGHT TEST

OF POOR QUALITY

B622

LEFT PART NAME: RIGHT HAND FLAPERON

CHANNEL: 04 - UUTBOARD EENDING. STATION 24.95

CALIBRATE EQUIVALENT: 100K = 6068 IN-LBS 6930 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTUR: 2.00 BRIDGE VOLT.: 6.00 2.000 PRE CAL. : 5.26 POST CAL. 5.25

JACK FAC. : NONE LEVER ARM : 24.200 IN.

CAL RES. 1 100

LOADS-POUNDS LOADS-IN-LES **GUTPUT-MV** VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS -11 0.000 -0.010 3-70 0.00 0.000 īī 0.010 20.00 4 64 . 00 C-420 0.010 12 40.00 968.00 0.620 -0.009 -10 1452.06 60.00 1.220 -0.028 -32 1936.00 80.00 1.660 -0.007 -6 0.024 100.00 2420-06 2.110

MAXIMUM CALIBRATION LOAD: 2420 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 11-15-76

END OF 108

END OF JOB

CALIBRATION SHEET" LAB ENGINEER: WHITENER DATA ANALYST: MARY LOU WRIGHT SERIAL NO: NOME LAB TECHNICIAN: JARVIES

LAB NO. : 10313A02 CAL DATE: 11-15-76 P/N: 304-028-067-1

ORIGINAL PAGE IS OF POOR QUALITY 3618

PROJECT: 301 FLIGHT TEST SHIP #1

PAPT NAME: LEFT HAND FLAP

CHANNEL: 03 - BENDING, STATION 24.25

CALIBRATE EQUIVALENT: 100K = 5618 IN-LBS

UNIT CAL = 6384 IN-LBS/MV/V

BRIDGE RES. : 350.00

GAGE FACTOR : 2.110

BRIDGE VOLT .: 6.00

PRE CAL. : 5.28

POST CAL. : 5.26 JACK FAC. : NONE

LEVER ARM : 23.500 IN.

CAL RES. : 100

LOADS-POUNDS	LOADS-IN-LBS	OUTPL: **	VARIATION FRUM	MEAN LINE
0	0	0.000	-0.026	-27
0.00	0.00	0.000	0.020	27
50.00	1175.00	1.080	0.001	2
100.00	2350.00	2-160	-0.023	-24
150.00	3525.30	3-260	-0.027	-29
200.00	4700.00	4.380	-0.011	-12
250.00	58 7 5∙00	5.530	0.034	36

MAXIMUM CALIBRATION LOAD: 5875 IN-LBS

CALIBRATION SHEET
LAD ENGINCER: UMITENER
DATA ANALYST: MARY LOU WRIGHT
LAS TECHNICIAN: JARVIES

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10314A02 CAL DATE: 11-15-76 SEKIAL NO: NONE P/N: 300-028-067-2

B613

PROJECT: 301 PLIGHT TEST SHIP #1

PART NAME: RIGHT HAND FLAP

CHANNEL: 03 - BENDING. STATION 24.13

CALIBRATE EQUIVALENT: 100K = 6815 IN-LBS UNIT CAL = 7774 IN-LBS/NV/V

BRIDGE RES.: 350.00
GAGE FACTUR: 2.110
BRIDGE VOLT.: 6.00
PRE CAL.: 5.26
PUST CAL.: 5.26

JACK FAC. : NONE LEVER ARM : 23.380 IN.

CAL RES. : 100

LDADS-POUNDS	LOADS-IN-LBS	OUTPUT-MY	VARIATION FROM XILLIVOLTS	MEAN LINE IN-LAS
0	0	0.000	-0.009	-12
0.00	0.00	0.000	0.09	15
50.00	1169-00	0.890	-3.003	-4
100.00	2338.00	1.740	- 0.006	-7
150 •00	3507.00	2.690	~0.00a	-10
200.00	4676-00	3.600	-0.000	- 0
250 -00	5845-00	4.510	0.008	10

MAXIAUM CALIBRATION LOAD: 5845 IN-LSS

BHC PROGRAM FCCR33 - RUN DATE: 11-18-76

CALIBRATION SHEET LAB ENGINEER: GLASS DATA ANALYST: BROGDON LAB TECHNICIAN: JARVIES

ORIGINAL PAGE 15 OF POOR QUALITY SERIAL NO: NONE P/N: 300-310-18G B108

PROJECT: MODEL 301 FLIGHT TEST

PART NAME: ROTOR MAST

CHANNEL: 03 - PERPENDICULAR BENDING STATION 13.2

27160 IN-LBS 30987 IN-LBS/MY/V 100K = CALIBRATE EQUIVALENT: UNIT CAL =

BRIDGE RES.: 350.00 GAGE FACTUR: 2.06 BRIDGE VOLT.: 10.00 2.063 10.00 PRE CAL. : POST CAL. : 8.76 8.77

JACK FAC. : 0.6090 PS LEVER ARM : 12.250 IN. G.6090 PSI/LB

CAL RES. : 100

LOADS-PSI	LOADS-IN-LBS	DUTPUT-MV	VARIATION FROM	R MEAN LINE IN-LOS
G	0	0.000	-0.019	− 58
0.00	0.00	0.000	0.619	58
300.00	6034.48	1.900	-0.029	-29
600.00	12068.96	3.870	-0.006	-19
900.00	18103.45	5.830	0.006	19
1200.65	24137.93	7-800	0.029	89
1500.00	30172-41	9.700	-0.019	~5 ε

MAYTHUM CALIBRATION LOAD: 30172 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 01-26-7

B108

CALIBRATION SHEET LAB ENGINEER: GLASS DATA ANALYST: BROGDON LAB TECHNICIAN: JARVIES

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ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 16495A02 CAL DATE: 1-22-76 SERIAL NO: NONE P/N: 300-010-180 B109

PRGJECT: MODEL 301 FLIGHT TEST

PART 'NAME: ROTOR MAST

CHANNEL: 04 - PARALLEL BENDING. STATION 13.2

130K = UNIT CAL = 26613 IN-LBS 30346 IN-LBS/MV/V CALIBRATE EQUIVALENT:

BRIDGE RES. : 350.00 GAGE FACTUR : 2.080 2.080 BRIDGE VOLT .: PRE CAL. : POST CAL. : 8.76 8.78

JACK FAC. : 0.6090 PSI/LB LEVER ARM & 12.250 IN.

CAL RES. : 100

LOADS-PSI	LOADS-IN-LBS	OUTPUT-NV	VARIATION FROM	MEAN LINE
0	5 0	0.000	-0.038	-116
G.Cō	0.00	0.000	0.038	116
300.00	6034.48	1.900	-0.050	-153
606.00	12068.96	3.930	-6.009	-27
900-00	19103.45	5.930	0.002	7
1200-00	24137.93	7.950	0.034	103
1500 - 60	30172-41	9.890	-0.015	-45

MAXIMUM CALIBRATION LOAD: 30172 IN-LBS

بالا المدارية والمستحدين والمستحدين

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BHC PROGRAM FCCR33 - RUN DATE: 01-29-7

B109

CALIBRATION SHEET LAW ENGINEER: GLASS DATA ANALYST: BROGEON LAW TECHNICIAN: JAKVIES

Section 19 Section 19

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10495A03 CAL DATE: 1-22-70 SERIAL ND: NONE P/N: 300-010-180

ITEM CODE MIDT

PROJECT: MODEL 301 FLIGHT TEST

PART'NAME: ROTOR MAST

CHANNEL: 05 - TORSION. STATION 12.0

CALIBRATE EQUIVALENT: 100K = 49772 1H-LBS UNIT CAL = 56350 IN-LBS/KY/V

BRIDGE RES.: 350.GO
GAGE FACTOR: 2.045
BRIDGE VOLT: 10.G1
PRE CAL.: 8.84
POST CAL.: 8.84

JACK FAC. : 0.6690 PSI/LE LEVER ARM : 42.000 1N.

CAL RES. 1 100

LOADS-PSI	LOADS-IN-LBS	CUTPUT-MY	VARIATION FROM	MEAN LINE
0	. 0	0.000	-0.006	-32
0.00	0.00	0-1 70	0.006	32
435.00	30000-00	5 • · · · ·	0.017	96
873.00	60000-00	10-6	-0.001	-5
1305.60	90000.00	15.9	-4.019	-108
1746.00	120000-00	21.2	-0.057	-323
2175.00	15000C-00	26.65.	0.054	306

MAXIMUM CALIBRATION LCAD: 150000 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 01-28-7

M 107

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CALIBRATION SMEET LAB ENGINEER: A. WHITENER DATA ANALYST: MARY LCU WRIGHT LAB TECHNICIAN: ANDERSON

LAB NO. : 10564HO CAL DATE: 11-19-70 SERIAL NO: NONE P/N: NCNE

ORIGINAL PAGE IS OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

B 282

PART NAME: LEFT MAND ELEVATOR

CHANNEL: 04 - BEAM EENDING. STATION 43.25

CALIBRATE EQUIVALENT: 100K = 3365 IN-LBS

BRIDGE RES.: 350.00
GAGE FACTOR: 2.110
BRIDGE VOLT.: 5.00
PRE CAL.: 5.30
POST CAL.: 5.29

JACK FAC. : NONE LEVER AKM : 13-166 IN.

CAL RES. : 100

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MAXIMUM CALIBRATION LOAD: GES 15-LES

HC PROGRAM FCCR33 - RUN DATE: 11-23-76

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END OF JOS

CALIBRATION SMEET
LAB ENGINEER: WHITENER
DATA ANALYST: MARY LCU WRIGHT
LAB TECHNICIAN: ANDERSON

ORIGINAL PAGE 19
OF POOR QUALITY

LAB NO.: 10554A04 CAL DATE: 11-24-76 SERIAL NO: NONE P/N: NGNE

M 279

PROJECT: 301 FLIGHT TEST

PART NAME: ELEVATOR TORQUE TUBE CHANNEL: 04 - TORSICH. STATION 3.8

CALIBRATE EQUIVALENT: 100K # 4421 IN-LBS UNIT CAL # 4981 IN-LBS/MV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.080
BRIDGE VOLT.: 6.00
PRE CAL.: 5.33
POST CAL.: 5.32

JACK FAC. : NONE LEVER ARN : 16.000 IN.

CAL RES. : 100

LOADS-POUNDS	LOADS-IN-LES	GUTPUT-MV	VARIATION FROM	MEAN LINE
Ó	0	0-000	0.001	1
0.00	0.00	0.000	-0.001	- 1
20.00	320.00	0.390	0.003	3
40.00	640+0C	0.77Ó	-0.002	-2
_ 60.00	960.00	1-160	0.002	2
80.00	1250.00	1.540	-0-003	~5
100.00	1600.00	1.930	0.001	1

MAXIMUM CALIBRATION LCAD: 1600 IN-LES

BHC PROGRAM FCCR33 - RUN DATE: 11-30-7

CALIBRATION SHEET
LAB ENGINEER: WHITENER
DATA ANALYST: MARY LCU WRIGHT
LAB TECHNICIAN: ANDERSON

LAB NO.: 10554AC6 CAL DATE: 11-24-76 SERIAL NO: NGNE P/N: NCNE

ORIGINAL PAGE IS OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

PART NAME: ELEVATOR TORQUE TUBE CHANNEL: 06 - TORSICN. STATION 3.8

4275

CALIBRATE EQUIVALENT: 100K = 4267 IN-LBS UNIT CAL = 4817 IN-LBS/MY/V

BR INGE RES : 350.00 GAGE FACTOR : 2.000 BRIDGE VOLT : 0.00 FRE CAL : 5.32 POST CAL : 5.31

JACK FAC. : NONE LEVER ARM : 16.000 IN.

CAL RES. : 100

LOADS-POUNDS LGADS-IN-LES **CUTPUT-KV** VARIATION FROM MEAN LINE FILLIVOLTS IN-LBS 0.000 0.000 Ω C.00 0.00 -0.002 -2 20.00 320.00 0-400 -0.000 -0 40.00 64 0.00 0.660 0.001 3 60.00 900.00 1.200 0.002 80.00 1.650 1280.00 C. CU4 100.00 1600.00 1.990 -0.005

MAXIMUM CALIBRATION LCAD: 1600 IN-LBS

BHC PHOGRAM PECRES - RUN DATE: 11-30-7

CALIBRATION SHEET LAB ENGINEER: A. WHITENER DATA ANALYST: MARY LCU WRIGHT LAB TECHNICIAN: ANDERSON LAB NO.: 10554B CAL DATE: 11-15-SERIAL NO: NONE P/N: NCHE

ORIGINAL PAGE IS OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

BZZU

PART NAME: RIGHT HAND ELEVATOR

CHANNEL: 04 - BEAM EENCING. STATION .3.25

CALIBRATE EQUIVALENT: UNIT 100K = 2859 IN-LBS/MV/V

BR IDGE RES.: 350.00 GAGE FACTUR: 2.110 BR IDGE VOLT.: 6.00 PRE CAL.: 5.29 JACK FAC. : NONE LEVER ARM : 13.188 IN.

CAL RES. : 100

LOADS-POUNDS	Loads-In-LBS	CUTPUT-MV	YARIATION FROM	MEA LI!
0	G	0.000	-0.003	-2
0.00	0.00	C. 000	0.003	2
10.00	131.86	0.240	-0.001	-0 -3
20.00	263.75	0.480	-0.005	-3
30.00	395.63	0.73C	0.001	I
40.00	527.50	0.970	-0.003	-1
50.00	659.38	1.220	0.003	2

MAXIMUM CALIBRATION LOAD: 659 IN-LB

BHC PROGRAM FCCR33 - RUN DATE: 11-2

CALIBRATION SHEET

LAB NO. : 10554A19 CAL DATE: 11-24-76 SERIAL NO: NONE P/N: NCNE

__ PROJECT: 301 FLIGHT TEST__

B 278

PART NAME: RIGHT HAND RUDDER CHANNEL: 03 - BEAM EENCING

1153 [A-LBS 1312 [A-LBS/MV/V CALIERATE EQUIVALENT: 100K = UNIT CAL =

ERIDGE RES. : 250.00 GAGE FACTUR : 2.118 2.110 BRIDGE VOLTA: 5.27 POST CAL. : 5.27

JACK FAC. : NONE LEVER ARN : 8.563 IN.

CAL RES. : 100

LOADS-POURDS LDADS-IN-LES **DUTPUT-MY** VARIATION FROM MEAN LINE IN-LBS MILLIVOLTS 0.000 0.001 -00 0.00 0.00 0.190 5.00 42.81 -0.004 -1 10.00 85.03 0.390 -0.000 -0 0.590 15.00 0.004 20.00 -0.001 0.980 0.003 25.00 214.06 30.00 256.66 1-170 -0.003

MAXINUM CALIBRATION LOAD: 257 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 11-30-70

CALIBRATION SHEET LAB ENGINEER: BHITENER
DATA ANALYST: MARY LCU WRIGHT
LAB TECHNICIAN: ANDERSON

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO.: 1055 CAL DATE: 11-2 SERIAL NO: NONE P/N: NCNE

___ PROJECT: 301 FLIGHT TEST

PART NAME: R/H RUDDER TOROUE TURE

CHANNEL: 03 - TORSIGN. STATION 2.13

1006 IN-LES 1135 IN-LES/KV/V CALIBRATE EQUIVALENT: UNIT CAL =

BRIDGE RES. : 350.00 GAGE FACTUR : 2.049 2.045 BRIDGE VOLT: PRE CAL: POST CAL: 6.00 5.32 5.32

JACK FAC. : NONE LEVER ARM : 30.000 IN.

CAL RES. : 100

LOADS-POUNDS	LOADS-IN-LBS	OUTPUT-NY	VARIATION FROM MILLIVULTS	MEAN LINE
0	. 0	0.000	0.027	5 -5
0.00	0.00	C-000	-0.027	-5
5.00	150.00	0.820	-0.000	-0
10.00	300.00	1.640	0.027	Š
15.00	450.00	2.430	C.023	4
20.00	60.00	3.210	0.010	2
25-00	750.00	3.960	-0.033	-6

MAXIMUM CALIBRATION LCAD: 750 IN-LBS

BHC PROGRAM FCCR33 - RUN CATE: 11-30-71

CALIBRATION SMEET LAB ENGINEER: WHITENER DATA ANALYST: MARY LGU BRIGHT LAB TECHNICIAN: ANDERSON LAB NO.: 10554A24 CAL DATE: 11-24-76 SERIAL NC: NONE P/N: NCNE

ORIGINAL PAGE IS OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

B 280

PART NAME: LEFT HAND RUDDER CHANNEL: 04 - BEAM BENDING

CALIBRATE EQUIVALENT: 100K = 1167 IN-LBS UNIT CAL = 1326 IN-LBS/MV/V

BRIDGE RES.: 350.0C GAGE FACTOR: 2.110 BRIDGE VOLT.: 6.00 PRE CAL.: 5.28 PUST CAL.: 5.28

JACK FAC. : NONE LEVER ARM : 6.563 IN.

CAL RES. : 100

LCADS-POUNDS	LCACS-IN-LBS	CUTPUT-MV	VARIATION FROM MILLIVOLTS	MEAR LINE
0.00	0.00	0-000 0-000	0.002 -0.002	-i
5.00	42.81 85.63	0.200 0.390	0.004	1
10.00 15.00	128.44	- 0.580	-0.034	- i
20.00 25.00	171.25 214.06	0.780 0.970	0.003 -0.001	-0

MAXIMUM CALIBRATION LOAD: 214 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 11-30-7

٥K

CALIBRATION SHEET
LAB ENGINEER: WHITENER
DATA ANALYST: MARY LCU WRIGHT
LAB TECHNICIAN: ANDERSON

ORIGINAL PAGE IS
OF POOR QUALITY

LAB NO.: 10554A26 CAL DATE: 11-23-76 SERIAL NO: NONE P/N: NGNE

_.PROJECT: 301 FLIGHT TEST

M 277

PART NAME: L/H RUDDER TORQUE TUBE CHANNEL: 04 - TORSICN. STATION 2.13

CALIBRATE EQUIVALENT: 100K = 963 IN-LBS UNIT CAL = 1085 IN-LBS/MV/V

BRIDGE RES.: 350.00 GACE FACTOR: 2.080 BRIDGE VULT.: 6.00 PRE CAL.: 5.32 PDST CAL.: 5.33 JACK FAC. : NONE LEVER ARM : 30.000 IN.

CAL RES. : 100

LGADS-POUNDS	LOADS-IN-LES	OUTPUT-MV	VARIATION FROM FILLIVOLTS	MEAN LINE IN-LGS
. 0	0	0.000	0.022	4
0.00	0.00	0.000	-0.022	-4
5.00	150-00	0.850	-0.002	-0
10.00	300.00	1.710	0.028	5
15.CO	450.0C	2.530	0.018	3
20.00	600.00	3.340	-0.001	-0
25.00	750 -00	4.150	-0.021	-4

FAXIMUM CALIGRATION LCAD: 750 IN-LBS

BHC PROGRAM FCCR33 - RUN CATE: 11-30-7:

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO. : 10598A0 CAL DATE: 2-18-76 SERIAL NO: NONE P/N: 300-040-323-1

PROJECT: 301 PLIGHT TEST

PART NAME: L/H SPINDLE ASSEMBLY
CHANNEL: 03 BENDING. BRIDGE 01

CALIBRATE EQUIVALENT: 100K = 142400 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 BRIDGE VOLT.: 10.00 PRE CAL.: 8.71 POST CAL.: 8.71

JACK FAC. : 0.1180 PSI/LB LEVER ARM : 16.438 lN.

CAL RES. : 100

LOADS-PSI	LOADS-IN-LBS	CUTPUT-NV	VARIATION FROM	REAN LINE IN-LBS
0	0	0.000	-0.316	-269
0.05	NG-00	2-300	G. C16	263
285.00	39700.75	2.400	-013	~206
570.00	79401.50	4.850	3. 008	137
855.00	119102-25	7.320	0.049	867
1140.00	158803-00	9.790	0. 090	1476
1425.40	198503.75	12-250	0.121	1953
285.00	39700.75	2.400	L=0-013	-206
570.00	79401-50	4.830	-0.012	-190
855.00	119102-25	7.230	0.642	−664
1140-68	158803.00	9-620	:-0.000	-1302
1425.00	198503-75	12-000	-0-129	-2103

MAXIMUM CALIBRATION LDAD: 198504 IN-LES

BHC PROGRAM FCCR33 - RUN DATE: 02-23-7

B191

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10598AC CAL DATE: 2-18-75 SERIAL NO: NONE P/N: 340-940-323-1 B 190

PROJECT: 301 FLIGHT TEST

PART NAME: L/H SPINDLE ASSEMBLY CHANNEL: 04 - BENDING, BRIDGE 02

100K = 141228 1N-LBS CALIBRATE EQUIVALENT: UNIT CAL = 161012 IN-LBS/MY/V

GRIDGE RES.: 350.00 GAGE FACTOR: 2.13 BRIDGE VOLT.: 10.01 2.130 10.01 PRE CAL. : POST CAL. : 8.78 8.78

JACK FAC. : 0.1180 PSI/LB LEVER ARM : 16.438 IN.

CAL RES. : 100

LOADS-PS!	LOADS-IN-LBS	OUTPUT-MY	VARIATION FROM	
			HILLIVOLTS	in-lbs
0	0	0.000	0.018	205
0.00	G-00	······································	-0.018	-285
285	39720.75	2.470	-0.016	-256
570.00	79401-50	4.990	0.036	578
855.00	119102-25	7.490	0.068	1090
1145.00	158863.00	9.940	0.050	798
1425.60	198503.75	12.380	0.021	345
285.00	39700.75	2.470	-0.616	-256
570.00	79461.50	4.940	-0.014	-226
855.00	119102-25	7.420	-0.002	-36
1140-G3	158803.00	9.860	-0•03¢	-4 59
1425.00	196503.75	12-280	-0-079	1263

MAXIMUM CALIBRATION LOAD: 198564 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 02-23-1

B190

CALIBRATION SH LAW ENGINEER: DATA ANALYST: LAB TECHNICIAN	WHITNER BROGDON	ORIGINAL PAGE IS OF POOR QUALITY	LAB NO. : 1600AU CAL DATE: 2-14-76 SERIAL NO: NONE P/N: 306-040-223-2
`			B 166
PROJECT: 301 F	LIGHT TEST		
	• Part name: R/H Sp	INDLE ASSEMBLY	
•	NNEL: 03 - PENDIN		
			•
	*****	*************	280.
CALIER	ATE EGUIVALENT:	lock = tone	- In-Las
		IT CAL =	T in-Leg/MV/V
	******	***************************************	0.1,8
ERIDGE RES. :	750		CK FAC
GAGE FACTLIA :	2.0136 1.001		VER ARM : 10.213 IN.
THE CAL.	6.79	CA	L RES. : 100
POST CAL. :	€.79	•	•
LOADS-PSI	LOADS-IN-LBS		VARIATION FROM MEAN LINE MILLIVOLTS IN-LES
	0.00	0.000	-0.055105 - 0.055 105
285•00	4645.00	2.360	-0.055 -106
570.00	9298 • 13	4.652	-1.032 -60
855 • ⊕	13947+19	7.360	0.009 18
1140.00	18596+25	5.87.	6-651 56
1425.00	23245.31	12.290	i.602 4
265.00	4649•46 9298•13	2-425	0.667
570.60		4.850	-60 -60
855 คนบ 1140 - แบ	13947•19 18590•25	7•36 <i>0</i> 9•836	0.009 18 0.611 20
1425.00	23245.31	12.260	-u•u28 - 53
REIJAD WUMIKAM	ATION LUAD: 2324	5 IN-LBS	
		BHC PROGRA	M FCCR33 - RUN DATE: 62-23-
			B166
	•		

CALIB	MILTAR	EHEE	τ
	IGIN: E		
	an al y:.		くじもじひれ
LAB TE	LCHNIC	IMI	ベレ へらじい
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LAB NO. 1660 CAL DATE: 2-14-SERIAL NO: NORE _P/N: 300-040-023-E B165

PROJECT: 3.1 FLIGHT TEST

PART NAME: R/H SPINDLE ASSEMBLY

CHANNEL: 34 - BENDING. ERIDGE 02

1N-L65

BRIDGE RES. : 350.00 GAGE FACTOR : 2.130 BRIDGE VOLT.: 10.00 PRE CAL. : 0.76 POST CAL. : 8.79 2.130 20.00

JACK FAC. : NEXT .// MELEVER ALM : 10.313 IN.

CAL RES. : 100

LOADS-PSI	LCADS-IN-L6S	DUTPUT-KV	VARIATION FRO	
			KILLIVOLTS	in-les
C	C	2.606	-0-624	
0.60	‴ ″ ` ` ` ` ` `	ို့ မေလိုမိ		44
285	46496	2:450	-6.059	-110
た70 。 ċ Ა	\$258 . 13	£ = 010	ひゅひいお	14
855 • ··G	13947.19	7-440	-0+075	-139
1145.00	18:56.25	F. 9.	~~	-71
1425.00	23245.51	12.390	-0.151	-2EC
235 ⊕00	4649 *** 6	· 2•45u	-9.629	-54
570.uù	9298.13	5.030	ひゅじとと	51
E55•∪0	13547.19	7.620	i v.105 i i i i i i i i i i i i i i i i i i i	194
1140.00	16596685	1140	i • 112	2:7
1425.00	23245-31	12.620	U.6079	146
•			•	

-B165 HAXIMUM CALIERATION LOAD: 23245 IN-LES "

BHC PROGRAM FCCRES - RUN DATE: 62-25-7

END OF JOB 本一本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本

LIND OF JCE

CALIBRATION SHEET LAB ENGINEER: WHITNER DATA ANALYST: BROGDON WHITNER LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 1060 CAL DATE: 2-12 SERIAL NO: R/H P/N1 BHV200595-1 F638

PROJECT: 301 FLIGHT TEST

PART 'NAME: SHAFT TRUNNION

LEFT

CHANNEL: 03 - BENDING. BRIDGE 01

100K = CALIBRATE EQUIVALENT:

11125 IN-LBS 12670 IN-LBS/MV/V UNIT CAL =

SRIDGE RES. : 350.00 GAGE FACTOR : 2.13 BRIDGE VOLT.: 10.01 2-130 PRE CAL. : PDST CAL. :

JACK FAC. : NONE LEVER ARM : 3.100 IN.

CAL RES. : 100

LCADS-POUNDS	LOADS-IN-LBS	OUTPUT-NY	VARIATION FROM MILLIVOLTS	KEAN LINE
0	•	0.000	-0.051	-65
0.00	0.00	0.000	0.051	65
1600.50	4960.00	3.870	0.002	3
3200.00	9920-00	7.760	-0.026	-33
4800.GD	14880.00	11.680	-0.025	-32
6400.00	19840.00	15.610	-0.014	-16
8000.00	24799.99	19-560	0.017	22
1600-00	4960.00	3.880	0.012	16
3200.00	9920.00	7.740	-0.046	-59
4800.00	14880-00	11.680	-0.025	-32
6400.00	19640-00	15.640	J.016	20
8000.00	24799.99	19-580	0.037	47

MAXIMUM CALIBRATION LOAD: 24800 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: G2-18-7

F 638

CALIBRATION SHEET
LAB ENGINEER: WHITNER
DATA ANALYST: BROGDON
LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10607601 CAL DATE: 2-12-76 SERIAL NO: L/H P/N: BHY200595-1

PROJECT: 301 FLIGHT TEST

PART'NAME: SHAFT TRUNNION
CHANNEL: 03 - BENDING. BRIDGE 01

+++++++++++++++++++

CALIBRATE EQUIVALENT: 100K = 11498 IN-LBS UNIT CAL = 13094 IN-LBS/MY/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VOLT: 10.01
PRE CAL.: 8.79
POST CAL.: 8.79

JACK FAC. : NONE LEVER ARM : 3.100 IN.

CAL RES. : 100

LOADS-POUNDS	LOADS-IN-LES	QUTPUT-NY	VARIATION FROM	MEAN LINE
			MILLIVOLTS	IN-LJS
0	6	0.000	-0.038	-50
G-C0	0.00	0.000	0.038	50
1560.35	4963.00	3.750	-0.003	
3200 •00	9920-00	7.540	-0.005	− Ż
4800.00	14880.00	11.320	-0-017	-22
6400.00	19840.00	15.150	0.021	28
8000.00	24799.99	18.930	0.010	13
1600.00	4960-00	3.760	0.007	- 9
3200 - CO	9920-00	7.510	-0.035	-46
4863 • GC	14860-00	11.310	-0-027	-35
6400.00	19840.00	15.110	-0.019	-24
30-COA	24709-69	18-950	0.030	ξá

MAXIMUM CALIBRATION LOAD: 24800 IN-LBS

F611

LECT HEXT	TASK		
iāli 1	TYPE PULL =AXIAL BRIDGE TYPE=AXIAL	DATA UC(0)= -9524.4	148#10608A
	LAG HUMBER= 10008A BRIDGE VOLT= 10 BRIDGE STA.= 0	.UC(1)= 9253.9 <i>F/64</i>	•
AD(LBS)	BRIDGE HUMBER= 1 CURVE QUALITY= 99.8	• 1000 CF=	8097.2
0.0 1219.5 2439.0	10.330 0 11.589 0	*(*) .0 .0	
3658.5 4878.9 6097.6	14.239 @ 15.589 @	.2 .1 .0 6.57 M.V. MAX	output
3658.5 1219.5	14.240 0. 11.580 0.	.0 .1 .5	
0.0	10.320 <u>0</u> .		

LECT NEXT THEK

F164

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SELECT	NEST	THER			
THAIL	1	TYPE PULL #AXIA BRIDGE TYPE=AXIA LAB NUMBER= 106 BRIDGE VOLT= 10 BRIDGE STA.= 0 BRIDGE NUMBER= 1	<u>C</u> -A	UC(0)= -3029.0	7/89 1# 10609A
LORDALE	(8)	CURVE QUALITY=	-99.8 EARITY(%UC1	100K CE= 7821.3	
121 243 365 487 689 365 121	0.0 9.5 9.5 8.0 7.0 9.5 0.0	3.410 4.720 6.110 7.500 8.870 10.200 7.400 4.700 3.430	0.0 6.0 6.1 6.0 -0.0 6.1 0.6 6.0	6.79 M.V. MAX OUT PUT	

SPLECT HEAT THEF

F 189

ORIGINAL PAGE IS OF POOR QUALITY CALIBRATION SHEET
LAB ENGINEER: WHITNER
DATA ANALYST: BROGDON
LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. 1 10623A01 CAL DATE: 2-19-76 SERIAL NO: NONE P/N: BHF50622

PROJECT: 301 FLIGHT TEST

M612

PART NAME: R/H FLAP DRIVE TUBE CHANNEL: 03 - TORSION

CALIBRATE EQUIVALENT: 100K = 171 IM-LBS UNIT CAL = 193 IN-LES/KV/V

BRIDGE RES.: 350.00
GACE FACTOR: 2.075
BRIDGE VOLT.: 10.01
PRE CAL.: 8.84
PUST CAL.: 8.85

JACK FAC. : NONE LEVER ARM : 20.125 IN.

CAL RES. : 100

LOADS-POUNDS	LOADS-IN-LBS	OUTPUT-MY	VARIATION FROM MILLIVOLTS	MEAN LINE
0	0	0.000	-0.671	-1
0.00	0,00	.000	0.671	1
5.00	100.63	5.090	-C.U.	-1
10.00	201-25	19-260	· -0. 0: `	-2
15-00	301.88	15.560	0.064	C
20.00	402.50	20.810	0.045	1
25.00	503.13	26.030	0-0 56	1
30-00	603.75	31.140	-0.043	-1

MAXIMUM CALIBRATION LOAD: 604 IN-LBS

CALIBRATION SHEET
LAD ENGINEER: WHITNER
DATA ANALYSTZ BROGDON
LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10624A01 CAL DATE: 2-23-76 SERIAL NO: 101 P/N: BHF50624

M619

PROJECTS 301 FLIGHT TEST

PART NAME: L/H FLAP DRIVE TUBE CHANNEL: 03 - TORSION

CALIBRATE EQUIVALENT: 100K = 173 IN-LBS UNIT CAL = 196 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTUR: 2.075 BRIDGE VOLT.: 10.01 PRE CAL.: 8.84 POST CAL.: 8.84

JACK FAC. : HOUSE LEVER ARM : 20.125 IN.

CAL RES. : 100

LOADS-POUNDS	LOADS-IN-LBS	OUTPUT-NY	VARIATION FROM MILLIVOLTS	MEAH LINE IN-LOS
O	0	0.000	0-104	2
0.00	0.00	0.000	-0.104	-2
5.00	100.63	5.210	'-0e031	-1
10.00	201.25	10.420	0.041	1
15.00	301.88	15.630	0-114	2
20-00	402.50	20.760	0.107	2
25.00	503.13	25.850	· 0.060	1
30-00	603.75	30.740	·-0.187	-4

MAXIMUM CALIBRATION LOAD: 604 IN-LBS

				· · · · · · · · · · · · · · · · · · ·	The second secon
	. 2	TYPE PULL BRIDGE TYPE LAB NUMBER=	=PXIAL UC(0)=	DATA CROSSTALL: -519.3 UC(1)= 907.	F062 LAB#10626A
	A	BRIDGE VOLT BRIDGE STA. BRIDGE NUMB	= 10		/
	LOAD(LB9)	OUTPUT(MV)	LINEARITY(%UC1)	100K CE=	.794.4 V
	0.0	5.760	0.0	· •	
	150.0	7.380	0.0		·
ļ	300.0	9. 00	0.2	4,92	1.2
•	450.0	10.620	0.2		F062
	600.0 750.0	12.300	9.1		·
	900.0	14.020 15.680	-0.0 -0.0	•	•.
	600.0	12.310	0.1	•	
	300.0	9.000	0.2		•
	150.0	7.330	0.5		
	0.0	5.780	0.0		

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F104

		-Ŗ∷ĮĤL	DATA CROSSTALL	
CHRN 3	BFIDGE TYPE: LAB N MBER=	=(0):00 U0(0)= = 10637 A	-610.2 UC(1)= 910.3	
	BRIDGE WOLT:		(O(1)+ 210.0	
	BRINGE STA.=	÷ ម៉ឺ		,
	BRIDGE HUMBE	F= 1	100K CE=	796.5
LOGD(LES)	OUTPUT(MV)	LINEARITY("WC1)		•
0.0	6.736	0.0		
150.0	9.350	មូ.មូ		
303.0	9.960	0.2		,
450.Û	11.500	0.1		
600.0	13.286	0.1	9,90	
750.6	14.990	-0.0		
900.0	16.630	-0.0		
600.0	13.270	0.1		
380.0	વે.વેન્ણ	0.2		
150.0	8.330	0.3	ng angan - mana manan. M	
0.0	6.780	0.0		

FOSS

مع المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة المعالمة	TYPE PULL :	=AXIAL	DATA	
6	BRIDGE TYPE: LAB NUMBER= BRIDGE VOLT:	= <i>AXIAL</i> UC.(01=) 10630 A	-688.4 UC(1)= 910.0	a V
	BRIDGE STA.: BRIDGE HUMBI	= 0	•	. /
LOMBALBS)	OUTPUT((AV)	LINEAPITY(NUC1)	100K CE-	796.3 ✓
. 0.0	7.600	0.0		•
150.0	9.200	0.й		
360.0	10.810	0.3		
450.0 200.0	12.490	0.1	9.89	
600.0	14.130	0.1		
750.0	15.860	-0.0		
900.0	17.490	-0.0		
600.0	14.130	0.1		
300.0	10.830	0.2		
150.8	9.200	0.3		
0.0	7.630	0.0		

ORIGINAL PAGE IS OF POOR QUALITY

CALIBRATION SHEET LAB ENGINEER: WHITHER DATA ANALYST: BROGDON LAB TECHNICIAN: KINSON ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 1863 CAL DATE: 2-25 SERIAL NO: NONE P/N2 300-001-615-1

F621

PROJECT: 301 FLIGHT TEST

PART NAME: CONTROL TUBE ASSEMBLY

CHANNEL: 03 - AXIAL LOADING

CALIBRATE EQUIVALENT: 100K = 2021 POUNDS UNIT CAL = 2302 POUNDS/MY/Y

BRIDGE RES. : 350.00 GAGE FACTOR : 2.120 2.120 BRIDGE VULT .: 10.00 PRE CAL. : POST CAL. : £.. 78 8.76

JACK FAC. : 0.66 LEVER ARM : NOME 0-6090 PSI/LB

CAL RES- : 100

LOADS-PSI	LOADS-POUNDS	OUTPUT-HV	VARIATION FROM	MEAN LINE
0	ō	0-000	-0.024	-6
0-00	5.00	0.000	U-024	Ü
450.05	656.81	2.810	-0.019	-<
800-00	1:13.63	5-670	-0.013	-3
1200.00	1570.44	8.530	-6-007	-2
1600.00	2627 .26	11.400	0.309	2
2000-00	3264.07	14-250	0-006	1

MAXIMUM CALIERATION LOAD: 3284 POUNDS

CALIBRATION SHEET
LAR ENGINEER: WHITNER
DATA ANALYST: BRGGDON
LAS TECHNICIAN: KINSON

Many talent

GRIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10633A01 CAL DATE: 2-25-76 SERIAL NO: NONE P/N: 300-001-615-1

Graft I B

F614

PROJECT: 301 PLIGHT TEST

PART NAME: CONTROL TUBE ASSEMBLY CHANNEL: 04 - AXIAL LOADING

CALIBRATE EQUIVALENT: 100K = 2016 POUNDS UNIT CAL = 2289 POUNDS/NV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.120 ERINGE VOLT.: 10.00 PPE CAL.: 6.61 POST CAL.: 6.81

JACK FAC. : 0.6090 PSI/LB

LEVER ARM : NONE

CAL RES- 1 130

LOADS-PSI	LOADS-POUNDS	OUTPUT-MY	VARIATION FROM MILLIVOLTS	MEAN LINE
0	0	9-000	-0.019	-2
2.30	0.00	6.650	0-010	2
400.00	656-81	2-850	-0.010	-2
800.00	1313-63	5.720	-0-010	-2
1200.00	1970-44	8.600	0.000	0
16000	2627.26	11.490	0.020	5
2000.00	3284.07	14.330	-0-010	-2

MAXIMUM CALIERATION LOAD: 3284 POUNDS

ELECT NEXT	TASI:	
Ж ан 1	TYPE PULL #BEND-POS. BRIDGE TYPE=BENDING LAB NUMBER= 10635A BRIDGE VOLT= 10 BRIDGE STA. = 0 BRIDGE NUMBER= 1	UC(0)= -411.4 BO52, UC(1)= 779.7 LAS#10635A
.0AD(LBS) 0.0 40.0 80.0 120.0 160.0	OUTPUT(MV) . LINEARITY(% 5.300 0.0 5.780 0.0 6.280 0.5	
200.0 120.0 40.0 0.0 ELEUT NEXT T	7.870 0.1 6.800 -0.0 5.770 0.9 5.300 0.0	2.57 M.V. MAK OUT PAT
2HBH 1	HSK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10635A BRIDGE VOLT= 10 BRIDGE STA. = 0 BRIDGE HUMBER= 1	UC(0)= 369.7 UC(1)= -810.0
40.0 80.0 -126.0 -60.0 -00.6	OUTPUT(MY) LINEARITY(%UC 4.560 0.0 4.090 0.0 3.600 0.3 3.110 0.2 2.580 -0.0	2.46 M.U. MAY output
120.6 40.0 0.0	3.040	

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B052

SELECT NEXT		DATA BITA OKCONTOLI LABTIO636
	TYPE PULL =BEND-POS.	
CHAN 1	BRIDGE TYPE=BENDING	UC(0)= 260.1 UC(1)= 851.0
	LAB NUMBER= 10606A	
	BRIDGE VOLT= 10	B 142
•	BRIDGE STA. = 0	•
	BRIDGE NUMBER= 1	100K CE= 744.6
	and the second s	• • • • • •
LOAD(LBS)	OUTPUT(MY) • LINEARITY((001)
0.0	-3.060 0.0	
40.0	-2.600 0.0	
80.0	-2.130 0.1	
120.0	-1.678 0.1	2.36 Mill MAY OUT PUT
160.0	-1.180 -0.0	2. 30 rav. mar bur pul
200.0	-0.700 -0.0	
120.0	-1.620 -0.2	
40.0	-2.580 -0.2	
0.0	-3.040 0.0	
BELEGT NEXT		DATA
		DATA
BELECT NEXT	TASK	DATA UC(0)= -278.9
BELECT NEXT	TASK TYPE PULL =BEND-NEG	DATA UC(0)= -278.9 UC(1)= -851.2
BELECT NEXT	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING	
BELECT NEXT	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 19636	
BELECT NEXT	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636/L BRIDGE VOLT= 10 BRIDGE STA.= 0	
BELECT NEXT	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636A BRIDGE VOLT= 10	
BELECT NEXT	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636 BRIDGE VOLT= 10 BRIDGE SIA.= 0 BRIDGE NUMBER= 1	UC(1)= -851.2 100K CE= -744.8
SELECT HENT DHRN 1	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636A BRIDGE VOLT= 10 BRIDGE STA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITYC	UC(1)= -851.2 100K CE= -744.8
SELECT HENT DHBH 1 ORDGLBS 0 0.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636A BRIDGE VOLT= 10 BRIDGE SIA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITYC -3.280 0.0	UC(1)= -851.2 100K CE= -744.8
SELECT HENT CHAN 1 LOAD(LBS) 0.0 40.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636A BRIDGE VOLT= 10 BRIDGE SIA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITYC -3.280 0.0 -3.710 0.0	UC(1)= -851.2 100K ČE= -744.8 (UC1)
SELECT HENT DHBH 1 ORDGLBS 0 0.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636/L BRIDGE VOLT= 10 BRIDGE SIA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITY(-3.280 0.0 -3.710 0.0 -4.230 -0.1	UC(1)= -851.2 100K ČE= -744.8 (UC1)
SELECT MENT DHAN, 1 LOAD(LBS) 0.0 40.0 80.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636/1 BRIDGE VOLT= 10 BRIDGE STA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITY(-3.280 0.0 -3.710 0.0 -4.230 -0.1 -4.690 0.0	UC(1)= -851.2 100K CE= -744.8
SELECT NEXT CHRN 1 LORD(LBS) 0.0 40.0 80.0 120.0 160.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636/ BRIDGE VOLT= 10 BRIDGE STA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITYC -3.280 0.0 -3.710 0.0 -4.230 -0.1 -4.690 0.0 -5.150 0.1	UC(1)= -851.2 100K ČE= -744.8 (UC1)
SELECT NEXT CHRN 1 LOAD(LBS) 0.0 40.0 80.0 120.0 160.0 100.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636 BRIDGE VOLT= 10 BRIDGE STA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITYC -3.280 0.0 -3.710 0.0 -4.230 -0.1 -4.690 0.0 -5.150 0.1 -5.630 0.0	UC(1)= -851.2 100K ČE= -744.8 (UC1)
SELECT NEXT CHRN 1 LORD(LBS) 0.0 40.0 80.0 120.0 160.0	TASK TYPE PULL =BEND-NEG BRIDGE TYPE=BENDING LAB NUMBER= 10636/ BRIDGE VOLT= 10 BRIDGE STA.= 0 BRIDGE NUMBER= 1 OUTPUT(MV) LINEARITYC -3.280 0.0 -3.710 0.0 -4.230 -0.1 -4.690 0.0 -5.150 0.1	UC(1)= -851.2 100K ČE= -744.8 (UC1)

B142

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CALIBRATION SHEET LAB ENGINFER: WHITNER DATA ANALYSTI BROGDON LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10637A01 CAL DATE: 2-25-76 SERIAL NO: NONE P/N: 301-053-013-13 F333

PROJECT: 301 FLIGHT TEST

PART HAME: PEDAL FORCE TUBE ASSEMBLY CHANNEL: 03 - AXIAL LOADING

CALIBRATE EQUIVALENT:

100K = UNIT CAL = 536 POUNDS 610 POUNDS/MY/Y

BRIDGE RES.: 350.00 GAGE FACTOR: 2.12 BRIDGE VOLT: 10.01 2.120 PRE CAL. : POST CAL. : 8.80 8.79

JACK FAC. : 1.5000 PSI/LB LEVER ARM : NONE

CAL RES. 1 100

LOADS-PSI	LDADS-POUNDS	OUTPUT-MY	VARIATION FR	OM MEAN LINE
			MILL IVOLTS	POUNUS
0	•	9-596	0.501	49
0.00	0.00	0.000	108.0~	-40
225.00	150.00	2.540	-5.722	-4
450-00	300.00	5-120	·-J-603	_33
375.00	4.250.33	7.640	2.737	$G_{\overline{G}}$
-00000	600.00	10-220	-0-425	<u>/ (67)</u>
(1125.00)	750.00	12.920	-0-187	/-11
(130100	2 COACO	06 401	
			/	B
			<i>د</i> بط	lead mat
			647	1 ceall mipel
			F• C	h-ailibick
MAXIKUM CALIBRAT!	ION LOAD: 750	POUNDS	•	1 000-8
The second secon				J & F

F 333

CALIBRATION SHEET LAB ENGINEER: WHITHER DATA ANALYST: BROGDON LAB TECHNICIAN: KINSUN

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10638A01 CAL DATE: 2-25-76 SERIAL NO: NONE P/N: 301-053-013-13 F334

PROJECT: 301 FLIGHT TEST

PART NAME: PEDAL FORCE TUBE ASSEMBLY CHANNEL: 04 - AXIAL LOADING

CALIBRATE EQUIVALENTS 100K = 531 POUNDS 605 POUNDS/MY/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.12 BRIDGE VOLT.: 10.01 PRE CAL.: 8.80 POST CAL.: 8.78 2. 120

JACK FAC. : 1.5000 PS1/LB

LEVER ARM : NONE

CAL RES. : 100

LDADS-PSI	LOADS-POUNDS	OUTPUT-MY	VARIATION FROM MILLIVGLTS	MEAN LINE
0	0	0-000	-0.033	-2
0.00	0.00	0.000	0-033	2
225.00	150-00	2.450	0-001	Ŏ
450.00	300.00	4.939	·-5-001	-0
675.00	450.00	7.350	-3.063	-4
900.00	600-00	9.850	-0.045	-3
1125.00	750.00	12-450	0.073	4

MAXIMUM CALIBRATION LOAD: 750 POUNDS

F 334

				A STANDARD OF THE PARTY OF THE
J P HENT		•	,	F162
GAN 1	TYPE PULL = BRIDGE TYPE=	AXIAL	DATA	LAB#.10639A
	LAB NUMBER=	naim∟ (10639 A	JC(0)= -361.0 UC(1)= 1107.84	/
	BRIDGE VOLT=	10	UC(1)= 1107.84	
	BRIDGE STA. =	Ø		
	BRIDGE NUMBE	R= 1		
LUSTAL DOX	CUPVE QUALIT		100K CE=	969.3√
LUAD(LBS).	OUTPUT(MV)	LINEARITY (%UC1)	1	
366.7	3.320 · 6.520	0.0		
733.3	9.820	0.0 0.2	14.58 M.U. M	AT BUSDUT
1100.0	13.160	. 0.1	. 10.3 6 74.01 17	
1466.7	16.460	0. i		F162
1933.3	19.900	-0.0	•	FILE
1100.0	13.180	0.1		•
366.7 0.0	6.540	0.3	•-	
	3.320	ଡ.ଡ		

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12

•					
		TYPE PULL BRIDGE TYPI LAB NUMBER:	E=ANIAL UC(0:	DATA 0= -215.8 (1)= 1112.8	, LAB#10640A
		BRIDGE VOL		1112.0	
		BRIDGE STA		•	
19		BRIDGE HUH	8ER= 1	•	J
0		CURVE QUAL:	ITY= 99.5	. 100K CE≈	973.7 V
	T(0.88)	OUTPUT(MV)	LINEAPITY(%UC1)	•	
_	0.0	2.000	0.0	•	
	366.7	5.180	0.0		•
	733.3	8.480	0.2	• •	
	1100.0	11.780	0.1	16.51 M.V. M	AT ANTONT
•	1466.7	15.08	0.1	16.31 MM.	INT THE PARTY OF T
	1833.3	18.510	-0.0		
	1100.0	11.820	0.1		-181
•	366.7	5.210	0.3 ·		FIVE
	0.0	2.000	0.0		•

SELECT NEWT TASK

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CALIBRATION SHEET LAB ENGINEER! WHITNER DATA ANALYST: BROGDON LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10657A31 CAL DATE: 2-25-76 SERIAL NO: NONE P/N: 301-301-353-41 F 331

PROJECT: 301 FLIGHT TEST

PART NAME: LAT CYC STICK TUBE ASSY CHANNEL: 03 - AXIAL LOADING

100K = 537 POUNDS CALIBRATE EQUIVALENT: UNIT CAL = 611 POUNDS/MV/V

BRIDGE RES.: 350-00 GAGE FACTOR: 2-12 DRIDGE VOLT.: 10-01 2.120 PRE CAL. : POST CAL. : 6.79 8.80

JACK FAC. : 1.5000 PSI/LB LEVER ARM : NONE

CAL RES. 3 100

LOADS-PSI	LOADS-POUNDS	OUTPUT-HY	VARIATION FROM MILLIVOLTS	HEAN I INF
C	0	0.000	:-0.033	2
5.00	0.00	0.000	0.033	Z
199-00	66.67	1.040	-0.019	-1
200-30	133.33	2.140	-0.C10	-1
300.00	200.00	3.230	-0.011	-1
400-30	266-67	4.320	-0.013	-1
500.00	333.33	5-420	-0.004	-0
600-00	400.00	6.540	0.024	1

400 POUNDS HAXIMUM CALIERATION LOAD:

eeeeeeetratatatetaatatataa.itte END OF JOB

F 33 /

BHC PROGRAM FCCR33 - RUN DATE: 03-01-7.

END OF JOB **************** ***********

END OF JOS *******************

40 1 2 4 1 3 1 1 1 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1	2000 299 2150 2300 2356 2600 2750		ORIGINAL PAGE IS OF POOR QUALITY		52 B	LAB.#1065	
1411	0.0	100.0	200.u LES	360.0 LBS	480.0 LBS	500.0 LBS	
	6.0	7.1	e.3	0.5	10.7	11.9	
.0 8 .D 9 .D 10 -50 11	=7900 =7600 =7300 =7150 =70 500.0 L38	403.0 LBS	20%.0 LBS	198.8 188	0.0 LES	. 0.0	
:	13.1	10.7	8.3	7.1	6.0	0.0	
LEGT N	L: B: B:	YPE PULL RIDGE TYPE AB NUMBEL≂ RIBGE VOLT RIDGE STA. RIDGE NUMB	<u>16659A.</u> = 10 = 0		DATA ÜC(0)= UC(1)=	843.1	
200 300 400 500 600 406 200).0 .0).0).0).0).0).0	PUT(MV) 5.936 7.110 8.320 9.490 10.696 11.886 13.166 10.688	0 0 0 0 0 0 0 0		·	0E= 731	

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:0 2 ib 3	≃90 ≃9150 •=9300 ≈9450 ≃9660			original P/ of Poor Q		·	# 520 LA3# 10661A
19 31.	=?750 0.8 LBS	106.6 LBS	200.0 Lts	306.0 LBS	•400.0 LBS 8.6	500.0 ∙LBS	
	3.8	5.0	6.2	7.3	8.6	9.8	
D 8	=9300 =9150 =96	495.U LDS	298.0 LB S	100.0 LBS	0.6 LBS	0.0	
,	11.1	8.6	6.2	4.9	3.8	0.0	
.ECT .អ	1 B 5 8	YPE PULL RINGE TYPE	≃ ମୃ		DATA UC(0)= C(1)= {	-310.3 325.9	
		PUT (NV)	LINEARIT • 0	. ยิ	100K CE	E= 722.	.7
20 30 40 50 60 40 20	 6.6 6.6 6.6 6.6 6.6 6.6	9.288 8.088 9.820 11.860 8.520 6.188	0 0 0 -0 0	.2 .4 .0 .8 .8	7, 28 m.u	maz oui pu	.

F520

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10663A01 CAL DATE: 2-25-76 SERIAL NO: NONE P/N: 301-301-055-21

F 286

PROJECT: 301 FLIGHT TEST

PART NAME: FITTING-ADJ HORIZ STAB CHANNEL: 03 - AXIAL LOADING

CALIBRATE EQUIVALENT: 100K = 5294 POUNDS UNIT CAL = 6008 POUNDS/NY/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VOLT.: 10.01
PRE CAL.: 6.62
POST CAL.: 8.82

JACK FAC. I 0.6090 PSI/LB LEYER ARM I NOME

CAL RES. : 100

LOADS-PSI	LOADS-POUNDS	OUTPUT-MY	VARIATION FROM MILLIVOLTS	MEAN LINE POUNDS
0	3	0.000	-0.01G	-6
0- 00	6. 00	0.000	0.010	6
450.00	7251.72	1-226	-0.002	-1
903-00	1477.F3	2-440	·-3-613	-8
1350-60	2216.75	3.690	D.006 -	4
1800-00	2955.CT	4-900	-0.015	-9
2250.00	2694.±0	6.160	9-014	8

MAXIMUM CALIBRATION LOAD: 3695 POUNDS

CALIBRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST: MARY LOU WRIGHT LAB TECHNICIAN: PROVOST/JARVIES

ORIGINAL PAGE 15 OF POOR QUALITY LAB NO. : 10788402 CAL DATE: 9-23-70 SERIAL NO: A2-51001 P/N: 300-010-001-006

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND BLADE

CHANNEL: 06 + BEAM BENDING. STATION 22.825

CALIBRATE EQUIVALENT: 100K = 59756 IN-LBS UNIT CAL = 68033 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 2-150 BRIDGE VOLTO: PRE CALO: POST CALO: 6-00

5.27

JACK FAC. : 1.5000 PSI/LB LEVER ARM :123.675 IN.

CAL RES. : 100

LOADS-PSI	LOADS-IN-LB5	OUTPUT-MY	VARIATION FROM	MEAN LINE
0	0	0.000	-0.043	- 486
0.00	0.00	0.000	0.043	486
100.00	8245.00	0.650	-0.034	-389
200.00	16490.00	1.390	-0.021	-243
300.60	24735.00	2.130	-0.009	-67
400.00	32979.99	2.870	0.004	49
500.00	41224.99	3.610	0.017	194

PAXIMUM CALIERATION LOAD: 41225 IN-LBS

CALIBRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST: MARY LOU WRIGHT LAB TECHNICIAN: PROVOST/JARVIES

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10788403 CAL DATE: 9-23-76 SERIAL NO: A2-51001 P/N: JOJ-010-001-000

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND BLADE

CHANNEL: 03 - CHORD BENDING. STATION 52.5

B 123

CALIBRATE EQUIVALENT: 100K = 34152 IN-LB5

UNIT CAL = 38815 IN-L85/MV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VOLT.: 6.00
PRE CAL.: 5.28
POST CAL.: 5.28

JACK FAC. : 1.5000 PSI/LB

LEVER ARM : 94.000 IN.

CAL RES. : 100

LOADS-PSI	LOADS-IN-LBS	OUTPUT-MV	VARIATION FROM	MEAN LINE
0	0	0.000	-0.020	-132
0.00	0.00	0.000	0.020	132
100.00	6260.66	0• 92 0	-0.028	-184
200.00	12533.33	1.920	0.003	18
300.00	18800.00	2.890	0.004	25
400.00	25066.66	3.850	- 0•005	- 32
500.00	31333.33	4.830	0. 006	40

MAXIMUM CALIBRATION LOAD: 31333 IN-LBS

CALIBRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST: MARY LCU WRIGHT LAB TECHNICIAN: PRUVUST/JARVIES

LAB NO. : SERIAL NO: A2-51001 P/N: 300-010-001-006

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PROJECT: 301 FLIGHT TEST

41

PART NAME: RIGHT HAND BLADE

CHANNEL: 07 - BEAM PENDING. STATION 52.5

CALIBRATE EQUIVALENT: 14075 IN-LBS

UNIT CAL = 16012 IN-LBS/MV/V

BRIDGE RES. : 350.00 GAGE FACTOR : 2.13 2.130

6.00

BRIDGE VOLT: PRE CAL: POST CAL: 5.27 5.20 JACK FAC. : 1.5000 PS LEVER ARM : 94.000 IN. 1.50CO PSIALB

CAL RES. : 100

LOADS-PSI	LOADS-IN-LBS	DUTPUT-MY	VARIATION FROM	MEAN LINE
0	0	0.000	-0.065	-1,73
0.00	0.00	0.000	0.065	173
100.00	6266.66	2.200	-0.034	-224
200.00	12533.33	4.620	-0-012	-33
300.00	18600.00	7.000	0.018	51
400.00	25066.66	9.340	0.010	28
500.00	31333.33	11.680	0.002	5

MAXIMUM CALIBRATION LOAD: 31333 IN-LBS

CALIBRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST: MARY LOU ARIGHT LAB TECHNICIAN: PROVOST/JARVIES LAB NO.: 10788405 CAL DATE: 9-23-70 SERIAL NO: A2-51001 P/N: 300-010-001-006

ORIGINAL PAGE IS OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND BLADE

CHANNEL: 04 - CHORD BENDING. STATION 75.0

B125

CALIBRATE EQUIVALENT: 100K = 35678 IN-LBS
UNIT CAL = 40435 IN-LBS/MV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VULT.: 6.00
PRE CAL.: 5.30
PUST CAL.: 5.29

JACK FAC. : 1.5000 PSI/LB LEVER ARM : 71.500 IN.

CAL RES. : 100

LOADS-PSI LOADS-IN-LBS **OUTPUT-MV** VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS -0.009 0.009 -58 0.000 0.00 0.0ŏ 0.000 SĒ 0.690 100.00 4766.66 -0.009 -60 200.00 9533.33 1-400 -0.000 -42 300.00 14300.00 2.120 0.006 42 19066-66 400.00 2.820 -0.001 -8 500.00 23633.33 3.530 0.001 10

MAXIMUM CALIBRATION LGAD: 23833 1H-LBS

CALIBRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST: KARY LCU WRIGHT LAB TECHNICIAN: PROVOST/JARVIES

 $S(x) = (\mathbf{k}_1, \mathbf{m}_1, \dots, \mathbf{k}_{|\mathbf{k}|}, \dots, \mathbf{k}_{|\mathbf{k}|}) = (\mathbf{k}_1, \dots, \mathbf{k}_{|\mathbf{k}|}, \dots, \mathbf{k}_{|\mathbf{k}|}, \dots, \mathbf{k}_{|\mathbf{k}|})$

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10788A06 CAL DATE: 9-23-76 SERIAL NO: A2-51001 P/N: 300-010-001-006

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND BLADE

CHANNEL: 08 - BEAM BENDING. STATION 75.0

CALIBRATE EQUIVALENT: 100K = 12039 IN-LBS UNIT CAL = 13657 IN-LBS/MV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VOLT.: 6.00 2.130 6.00 PRE CAL. : POST CAL. : 5.29

JACK FAC. : 1.5000 PSI/LB LEVER ARM : 71.500 IN.

CAL RES. : 100

QUTPUT-NV LOADS-IN-LBS VARIATION FROM MEAN LINE LOADS-PSI MILLIVOLTS IN-LBS -155 155 0.000 -0.068 0.00 0.00 0.000 0.068 -0.056 100.00 4766.66 1.970 -129 -0.021 -0.026 200-00 9533.33 4.100 -48 300.00 14300.00 6.190 -58 400.00 19066-66 8.310 -0.000 -0 500.00 23633.33 10.440 0.035 80

MAXIMUM CALIBRATION LOAD: 23833 IN-L8S

CALIGRATION SHEET
LAB ENGINEER: A. WHITNER
DATA ANALYST: MARY LCU WRIGHT
LAB TECHNICIAN: PRUVOST/JARVIES

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10788A07 CAL GATE: 9-23-76 SERIAL NO: A2-51001 P/N: 300-010-001-006

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND BLADE

-- CHANNEL: 05 - CHORD JENDING. STATION 112.5

B127

CALIBRATE EQUIVALENT: 100K = 27761 IN-LBS
UNIT CAL = 31198 IN-LBS/MV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VOLT.: 6.00
PRE CAL.: 5.34
POST CAL.: 5.34

JACK FAC. : 1.5000 PSI/LB LEVER ARM : 34.000 IN.

CAL RES. : 100

LOADS-PSI	LOADS-IN-LBS	OUTPUT-MV	VARIATION FROM KILLIVOLTS	MEAN LINE IN-LBS
0.00	0.00	0.000	0.003 -0.003	-17 -17
100-00	2266.67	0.440	0.001	3
200+00	4533.33	0.880	0.005	24
300.00	6800.00	1-310	-0.001	· -7
400.00	9066.66	1.750	0.003	14
500.00	11333.33	2.180	-0.003	-17

MAXIMUM CALIBRATION LOAD: 11333 IN-LBS

CALIBRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST: MARY LOU WRIGHT LAB TECHNICIAN: PROVUST/JARVIES

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10788408 CAL DATE: 9-23-76 SERIAL NO: A2-51001 P/N: 300-010-001-006

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND SLADE

CHANNEL: 09 - BEAM BENDING. STATION 112.5

3126

CALIBRATE EQUIVALENT: 100K = 6019 IN-LBS UNIT CAL = 6783 IN-LBS/MV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE VOLT: 6.00
PRE CAL.: 5.32
POST CAL.: 5.33

JACK FAC. : 1.5000 PSI/LB LEVER ARM : 34.000 IN.

CAL RES. : 100

LOADS-IN-LBS DUTPUT-NV LOADS-PSI VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS -0.045 0.045 0.000 -51 0.00 ---0.00 Ši 100.00 2260.67 1.920 -0.040 -45 -18 -12 200.00 4533.33 3.950 -0.016 6800.00 5.957 300.00 -0.011 7.980 0.004 400.00 9066-66 500.00 11333.33 10.000 0.018 20

MAXIMUM CALIBRATION LOAD: 11333 IN-LBS

CALIFRATION SHEET LAB ENGINEER: A. WHITNER DATA ANALYST. MARY LOU WRIGHT LAB TECHNICIAN: JARVIES/EUBANKS LAB NO. : 10789A02 CAL DATE: 9-18-76 SERIAL NO: A2-09018 P/N: 300-010-031-035

B130 OK

ORIGINAL PAGE IS OF POOR QUALITY

PROJECT: 301 FLIGHT TEST

PART NAME: LEFT HAND BLADE

CHANNEL: 06 - BEAM BENJING. STATION 22-825

CALIBRATE EQUIVALENT: 100K = 62803 IN-LBS UNIT CAL = 71177 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 BRIDGE VOLT.: 6.00 PRE CAL.: 5.29 POST CAL.: 5.30 JACK FAC. : 1.5000 PSI/LB LEVER ARM :123.675 IN.

CAL RES. : 100

LDADS-PS1	LOADS-IN-LBS	OUTPUT-MY	VARIATION FROM A	MEAN LINE	
0 0.00 100.00 200.00 300.00 400.00 500.00	0 0.00 8245.00 16490.00 24735.00 32979.93 41224.99	0.000 0.000 0.670 1.360 2.060 2.780 3.460	-0.016 0.016 -0.009 -0.014 -0.009 0.016	-192 192 -106 -167 -110 185	

MAXIMUM CALIBRATION LOAD: 41225 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-

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ORIGINAL PAGE IS OF POOR QUALITY

LAB NO. CAL DATE: SERIAL NO: A2-09018 P/N: 300-010-001-005 B 130

__ PROJECT: 301 FLIGHT TEST

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PART NAME: LEFT HAND BLADE

CHANNEL: 06 - BEAM BENDING. STATION 22.825

62803 IN-LBS 71177 IN-LBS/MV/V CALIBRATE EQUIVALENT: 100K =

BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 BRIDGE VOLT: 6.00 2.130 6.00 PRE CAL. : POST CAL. : 5.29 5-30

JACK FAC. : 1.5000 PSI/LB LEVER ARM :123.6.5 IN:

CAL PES. : 100

LDADS-PS1	LDADS-IN-LBS	DUTPUT-MY	VARIATION FROM	MEAN LINE
 	O	. 0.000	-0.016	-192
0-00	0-00	6- 000 ,	0.016	192
200-00	8245-00	0.670	-0.009	-106
200.00	16490.00	1.360	-0.014	-167
 รา0∙00	24735.00	2.060	-0.009	-310
400.00	32979.99	2.780	0.016	185
500-00	41224.99	3.460	0.000	6

_MAXIMUM CALIBRATION LOAD: 41225 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-70

B 130

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10789A03 CAL DATE: 9-18-75 SERIAL NO: A2-09C:S P/N: 300-010-001-005 B/23

				OF	POOR	Qυ
POJECT:	301 FI	TENT	TERT	 		_

PART NAME! LEFT HAND BLADE

CHANNEL: 03 - CHORD BENDING. STATION 52.5

CALIBRATE EQUIVALENT: 100K = 32148 IN-LBS

BRIDGE RES.: 350.00

GAGE FACTOR: 2.130

BRIDGE VOLTO: 6.00

PRE CALO: 5.30

PDST CALO: 5.30

CAL RES.: 100

LUADS-PSI	LOADS-IN-LBS	OUTPUT-NV	VARIATION FROM MINILIVOLTS	MEAN LINE IN-LSS
 •	0	0-000	-0-053	-321
0-00	0.00	0.000	0.053	321
100.00	6266.66	0-940	-9-040	-244
200.00	12533.33	1.980	-0.033	-203
 . 300.00	18800.00	-·· 3.040	-0.007	-40
410.00	25066•66	4.090	0.010	62
500.00	31333.33	5-130	0.017	104

MAXIMUM CALIBRATION LOAD: 31333 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-7

3133

n in English and a

LAB ND. : 10789A03 CAL DATE: G-18-76 SERIA! NO: A2-09018 P/N: J00-010-001-00!

OF POOR-C'JALITY

... PROJECT: 301 FLIGHT TEST

PART HANE: LEFT HAND BLADE

CHANNEL: 03 - CHORD BENDING. STATION 52.5

CALIBRATE EQUIVALENT: 1COK = 32148 IN-LBS UNIT CAL = 35400 IN-LBS/M '/V

BRIDGE R2S.: 350.00
GAGE FACTOR: 2.130
BRIDGE VULT.: 6.00
PRE CAL.: 5.30
PDST CAL.: 5.30

14CF FAC. : 1.5000 PSI/LB

SCIER RAME & PRIOR SITE

CAL RES. : 100

LOADS-PSI	LDADS-IN-LBS	OUTPUT-NY	VARIATION FROM MILLIVOLTS	MEA LINE
	. 0	0.000	-0.053	-321
0-00	0-00	0.000	0.053	321
100-00	6265-66	0.940	-0.040	-244
200.00	12533-33	1.980	-0. 033	-203
300 -00	18800-00	3-040	-0.007	-40
400.00	25055-66	4.090	0.010	62
500.06	31333.33	5.130	· 0.017	104

MAXIMUM CALIBRATION LOAD: 31333 IN-LES

SHC PRUGRAM FCCR33 - RUN DATE: 09-27-

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PROJECT: 301 FLIGHT TEST PART NAME: LEFT HAND BLADE CHAMBEL: 07 - BEAM BENDING. STATION 52.5 OF POOR QU/ CALIBRATE EQUIVALENT: 100K = 14025 IN-LBS UNIT CAL = 15835 IN-LBS/MV/V *********************************	LAB ENGINEER: A DATA ANALYST: M LAB TECHNICIAN:	A WHITNER HARY LOW WRIGHT JARVIES/EUBANKS	ORIGINAL PAGE OF POOR QUAI	E 13 SERIAL	10-010-061-06
CHANNEL: 07 - BEAM BENDING. STATION 52.5 ORIGINAL PAR OF POOR QU/ ***********************************	PROJECT: 301 FLE	GHT TEST			
CHANNEL: 07 - BEAM BENDING. STATION 52.5 OF POOR QUI	PA	RT MAME: LEFT HAN	D BLADE		IGINAL_PAGE_IS
CALIBRATE EQUIVALENT: 100K = 14025 IN-LBS UNIT CAL = 15835 IN-LBS/MV/V *********************************	CHANN	IEL: 07 - BEAM BEN	DING. STATION		
BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 BRIDGE VOLTO: 6.000 CAL RES.: 100 LDADS-PSI LOADS-IN-LBS OUTPUT-MY VARIATION FROM MEAN MILLIVOLTS IN-L 0 0 0.000 0.000 0.050 -133 100.00 6266.66 2.280 -0.044 -117 200.00 125335.33 4.660 -0.039 -104 300.00 125335.33 4.660 -0.039 -104 400.00 25066.66 9.480 0.006 16 400.00 25066.66 9.480 0.001 62 500.00 31333.33 11.620 -0.004 -10 MAXIMUM CALIBRATION LOAD: 31333 IN-LBS		E EQUIVALENT:	100K = 1402 CAL = 1583	5 IN-LBS 5 IN-LBS/NY/V	
BRIDGE VOLT-: 6.00 PRE CAL. : 5.31 POST CAL. : 5.32 LDADS-PSI LDADS-IN-LBS OUTPUT-MY VARIATION FROM MEAN 0 0 0 0.000 -0.050 -133 0.00 0.000 0.000 0.050 133 100.00 6266.66 2.280 -0.044 -117 200.00 12533.33 4.660 -0.039 -104 300.00 12600.00 7.080 0.006 16 400.00 25066.66 9.480 0.031 62 500.00 31333.33 11.6520 -0.004 -10 MAXIMUM CALIBRATION LDAD: 31333 IN-LBS					
LOADS-PSI LOADS-IN-LBS OUTPUT-MY VARIATION FROM MEAN 0 0.000	GAGE FACTOR 1	2-130		CK FAC. : 1.50 Ver Arm : 94.00	00 PSIZLB
#ILLIVOLTS IN-L 0 0 0 0.000 -0.050 -133 0.00 0.00 0.000 0.050 133 100.00 6266.66 2.280 -0.044 -117 200.00 12535.33 4.660 -0.039 -104 300.00 18600.00 7.080 0.006 16 400.00 25066.66 9.480 0.031 62 500.00 31333.33 11.620 -0.004 -10 MAXIMUM CALIBRATION LOAD: 31333 IN-LBS	PRE CAL. : POST CAL. :	5.31 5.32		L RES. : 100	
300.000 25066.66 9.480 0.031 82 500.00 31333.33 11.620 -0.004 -10 MAXIMUM CALIBRATION LOAD: 31333 IN-LBS BHC PROGRAM FCCR33 - RUN DATE: 09 B 1/3 Z					
300.00 18600.00 7.080 0.001 12 12 12 12 12 12 12 12 12 12 12 12 12	0.00	0.00 6265.66	0-000 2-280	0.050 -0.044	133 -1 17
BHC PROGRAM FCCR33 - RUN DATE: 09 B 132	200-00	12533-33	4-660	-0.039 0.006	-104 16
BHC PROGRAM FCCR33 - RUN DATE: 09 B 132	400.00 500.00	25066-66 31333-33	9-480 11-620	0.031	-10
C - 4	MAXIMUM CALIBRAT	TION LOAD: 31333		M FCCR33 - RUN	
			. – Y		
			(

J. 3.

10789A04 LAB NO. : CAL DATE: 9-18-76 SERIAL NO: A2-09018 P/N: 300-010-001-005 ٥K

B132

- PROJECT: 301 FLIGHT TEST

PART NAME: LEFT HAND BLADE

CHANNEL: 07 - BEAM BENDING. STATION 52.5

14025 IN-LBS CALIBRATE EQUIVALENT: 100K = UNIT CAL = 15835 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.13 2.130 BRIDGE VOLT .: 6.00 PRE CAL. 5.31 POST CAL. 5.32

JACK FAC. 1 1.5000 PS LEVER ARM 2 94.000 IN. 1.5000 PS1/LB

CAL RES. : 100

LDADS-PSI LOADS-IN-LBS **OUTPUT-MY** VARIATION FROM MEAN LINE MILLIVOLTS IN-LAS 0.000 -133 0 G -0.050 0.00 0.00 0.000 0.050 133 100.00 6266-66 2-280 -0.044 -117200.00 12533.33 -0.039 -104 4.660 7.080 300-00 18800-00 0.006 36 25066.66 400-00 9-480 0.031 82 11.620 -0-004 31333-33 -10 500.00

. MAXIMUM CALIBRATION LOAD: 31333 IN-LBS

ORIGINAL PAGE IS OF POOR QUALITY

BHC PROGRAM FCCR33 - RUN DATE: 09-27-

CALIBRATION SHEE LAB ENGINEER: A DATA ANALYST: N LAB TECHNICIAN:	ET 1. WHITNER MARY LOU WRIGHT JARVIES/EUDANKS		LAB NO. CAL DATE SERIAL N P/N: 300	: 10789AC5 : 9-16-76 O: A2-09016 -010-001-005
PROJECT: 301 FL1	IGHT TEST	·	•	
P	, ART NAKE: LEFT HAN	D BLADE		
CHAN	NEL: 04 - CHORD BE	NDING. STATIO	75.0	
	*******	******		
CALIBRAT	E EGUIVALENT:	100K = 34641 CAL = 39001	I IN-LBS/MV/V	
	*********	*******		
PRIDGE RES.: 35 GAGE FACTOR: BRIDGE VOLT.:	2-120	JAC	CK FAC. 2 1.500 /ER ARM 1 71.500	O PSI/LB
PRE CAL. : POST CAL. :	5•33 5•33	CAt	RES. 100	
	LOADS-IN-LBS	DUTPUT-NV	VARIATION FRO	MEAN LINE
0.00	O C • DO	0•000	MILLIVOLTS -0.009 9.009 -0.005 -0.008	- 56 56
0.00 100.00 200.00	4766.66	0.720	-0.005	-32
300•00 	9533•33 14300•00	1.450 2.190	~0.008 ~0.002	-54 -11
400.00 500.00	19066.66 23833.33	2•930 3•660	0-005 0-031	32 9
MAXINUM CALIBRAT	110N LDAD: 23833		IGINAL PAGE IS	·
		_	POOR QUALITY	
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er i gaz - major - majoris m. i ambagninin gaza minin ka		BHC PROGRAI	FCCR33 - RUN D	ATE: 09-27-7
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LAB NO. : 10789A05 CAL DATE: 9-16-76 SERIAL NO: A2-09016 P/N: 300-010-001-005 B/35 4K

.... PROJECT: 301 FLIGHT TEST .

PART NAME: LEFT HAND BLADE

CHANNEL: 04 - CHORD BENDING. STATION 75.0

CALIBRATE EQUIVALENT: 100K = 34641 IN-LRS
UNIT CAL = 39001 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 BRIDGE VOLT.: 6.00 PRE CAL.: 5.33 POST CAL.: 5.33 JACK FAC. : 1.5000 PS1/LB LEVER ARM : 71.500 IN.

CAL RES. : 100

LDADS-PS1 LOADS-IN-LBS **DUTPUT-MV** VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS -56 0.000 -0.009 0.00 0.000 0-009 0.00 56 4766-66 -32 100.00 0.720 -0.005 200-00 9533.33 1.450 -0.008 -54 14300-00 2-190 300.00 ___ -0-002 -11 2-930 0.005 19066-66 32 400-00 500.00 23833-33 3-660 0.601

... MAXINUM CALIBRATION LOAD: 23833 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-

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ORIGINAL PAGE IS OF POOR QUALITY

LAB NO. : 10789A06 CAL DATE: 9-18-76 SERIAL NO: A2-09018 P/N: 300-010-001-005 B 134 · K

-- PROJECT: 301 FLIGHT TEST

PART NAME: LEFT HAND BLADE

CHANNEL: 08 - BEAM BENDING. STATION 75.0

CALIBRATE EQUIVALENT: 100K = 11580 IN-LBS UNIT CAL = 13087 IN-LBS/NV/V

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
- BRIDGE VOLT.: 6.00
PRE CAL.: 5.31
POST CAL.: 5.31

JACK FAC. : 1.5000 PSI/LB LEVER ARM : 71.500 IN.

CAL RES. : 100

LOADS-PSI LOADS-IN-LBS **DUTPUT-NY** VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS 0-000 -0-031 -67 0-00 0.00 0-000 - 0-031 67 100.00 4766-66 2-120 -0.035 -76 200.00 9533-33 4.330 -0-010 -23 300.00 14300-00 6.530 0.004 8 8.720 400.00 19066.66 0-008 18 500.00 23833-33 10-900 0.002 5

MAXIMUM CALIBRATION LOAD: 23833 IN-LRS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-7

ORIGINAL PAGE IS
OF POOR QUALITY

LAB NO.: 10789A06 CAL DATE: 9-13-76 SERIAL NO: A2-09C18 P/N: 300-010-001-005

... PROJECT: 301 FLIGHT TEST PART NAME: LEFT HAND BLADE CHANNEL: 08 - BEAM BENDING. STATION 75.0 11580 IN-LES 13087 IN-LES/XV/V CALIBRATE EQUIVALENT: 100K = UNIT CAL = BRIDGE RES. : 350.00 GAGE FACTOR : 2.13 JACK FAC. : 1.5000 PSI/LB 2.130 LEVER ARM : 71.500 IN. ... PRIDGE VOLT .: 6.00 PRE CAL. : POST CAL. : 5.31 CAL RES. : 100 5.31 LCADS-PSI LOADS-IN-LBS **OUTPUT-MV** VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS 0-000 -67 -0-031 -0.035 0.00 0.05 0.000 C7 4766.66 100-00 2.120 -76 200.00 9533.33 4.330 -0.010 -23 300.00 14300-00 6.530 0-034 B 400.00 19066-66 8.720 0.008 18 500-00 23833-33 10.900 0.002 MAXIMUM CALIBRATION LDAD: 23833 IN-LBS BHC PROGRAM FCCR33 - RIM DATE: 09-27-7

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10789A07 CAL DATE: 9-18-76 SERIAL NO: A2-09018 P/N: 300-010-001-005

137 or

PROJECT: 301 FLIGHT TEST

PART NAME: LEFT HAND BLADE

CHANNEL: 05 - CHORD BENDING. STATION 112.5

CALIBRATE EQUIVALENT: 100K = 26950 IN-LBS UNIT CAL = 30338 1N-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.13 2.130 BRIDGE VOLT .: 6.00 PRE CAL. : 5.33 5.33

JACK FAC. : 1.5000 PSI/LB LEVER ARM : 34.000 IN.

CAL RES. : 100

LOADS-PS1	LOADS-IN-LBS	QUTPUT-MY	VARIATION FROM MILLIVOLTS	MEAN LINE
0	. 0	0.000	-0.012	~63
0-00	0.00	0.000	0.012	63
100-00	2266-67	0-420	-0.016	-80
200.00	4533.33	0.580	-0.004	-21
_ 300+00 .	6800-00	1.340	0.00S	38
400.00	9066-66	1.780	-0.002	-4
500-00	11333.33	2-230	0-001	5

MAXIMUM CALIBRATION LDAD: 11333 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-7

CALIBRATION SHEET ORIGINAL PAGE IS LAB NO.: 10789407 CAL DATE: 9-18-76 SERIAL NO: A2-09018 LAB ENGINEER: DATA ANALYST: A. WHITNER OF POOR QUALITY MARY LOU WRIGHT LAB TECHNICIAN: JARVIES/EUBANKS P/N: 300-010-001-005 B/37 - PROJECT: 301 FLIGHT TEST PART NAME: LEFT HAND BLADE CHANNEL: 05 - CHORD BENDING. STATION 112.5 ************ CALIBRATE EQUIVALENT: 100K = 26950 IN-LBS UNIT CAL = 30338 IN-LBS/MV/V ************ BRIDGE RES. : 350.00 GAGE FACTOR : 2.13 JACK FAC. 1.5000 PSI/LB LEVER ARM : 34.000 IN. 2.130 BRIDGE VOLT .: 6.00 PRE CAL. 5.23 CAL RES. : 100 POST CAL. LDADS-PSI LOADS-IN-LBS **GUTPUT-NV** VARIATION FROM MEAN LINE MILLIVOLTS IN-LES -63 0.000 -0-012 0.00 0.00 0.000 0.012 63 100-00 2266.67 0.420 -0.016 -80 200.00 -0-004 4535.33 0.680 -21 300-00 6500.00 38 1.340 0.008 400.00 1.780 9066466 0.001 500-00 11333.33 2-230 0-001 ___ MAXIMUM CALIBRATION LOAD: 11333 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-7

B137

LAS NO. : 10789A08 CAL DATE: 9-18-76 SERIAL NO: A2-09018 P/N: 300-010-001-005

B 136 ok

PROJECT: 301 FLIGHT TEST

ORIGINAL PAGE IS OF POOR QUALITY

PART NAME: LEFT HAND BLADE

CHANNEL: 09 - BEAM BENDING. STATION 112.5

CALIBRATE EQUIVALENT: 100K = 5976 IN-LBS
UNIT CAL = 6747 IN-LBS/MV/V

BRINGE RES.: 350.00 GAGE FACTOR: 2.130 BRINGE VOLT: 6.00 PRE CAL.: 5.31 POS! CAL.: 5.32 JACK FAC. : 1.5000 PSI/LB LEVER ARM : 34.000 IN.

CAL RES. : 100

LDADS-PSI LOADS-IN-LBS **DUTPUT-MY** VARIATION FROM MEAN LINE MILLIYOLTS IN-LBS 0 0 0.000 -0.027 -30 30 0.027 0.000 0.00 0.00 100.00 2266.67 1.960 -0.029 -33 4533.33 3.990 -0.015 -17 200.00 6.030 300.00 6800.00 0.009 400.00 9066-66 8-050 0.013 -0.003 10-050 500.00 11333.33

MAXIMUM CALIBRATION LOAD: 11333 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 09-27-7

CALIBRATION SHEET LAB NO. : 10789A02 CAL DATE: 9-18-75 SERIAL NOT A2-090:0 LAB ENGINEER: A. WHITNER DATA ANALYST: MARY LOU WRIGHT ... LAB TECHNICIAN: JARVIES/EUBANKS P/N: 300-010-001-005 ORIGINAL PAGE IS B136 OF POOR QUALITY PROJECT: 301 FLIGHT TEST PART NAME: LEFT HAND BLADE CHANNEL: 09 - BEAM BENDING. STATION 112.5 ********* 100K = 5976 IN-LBS CALIBRATE EQUIVALENT: UNIT CAL = ... 6747 IN-LBS/MV/V *********** PRIDGE RES.: 350.00
GAGE FACTUR: 2.13 JACK FAC. : 1.5000 PSI/LB LEVER ARM : 34.000 IN. 2.130 BRIDGE VOLT .: 6-00 PRE CAL. : CAL RES. : 100 5.31 5.32 VARIATION FROM MEAN LINE MILLIVOLTS IN-LBS LOADS-IN-LBS DUTPUT-MY LOADS-PSI -30 --- 0.000 -0.027 0.00 0.000 30 0.00 0.027 100.00 2266-67 -0.029 -33 1.960 3.990 4533.33 -0.015 -17 200.00 6.030 - 0.009 10 300.00 6300-00 400.00 9065-66 8.050 0.013 14 500.00 -0.003 11333-33 10.050 11333 IN-LBS ___ MAXIMUM CALIBRATION LOAD: BHC PROGRAM FCCR33 - RUN DATE: 09-27-7 B136

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. 2 10983AC1 CAL DATE: 6-16-70 SERIAL NO: NONE P/N: 30C-010-411-11

PROJECT: 301 FLIGHT TEST

PART NAME: PITCH LINK

CHANNEL: 03 - AXIAL LOADING

CALIBRATE EQUIVALENT: 1GDK = 781 POUNDS UNIT CAL = 890 POUNDS/MY/V

BR ID GE RUS - : 350.00 GAGE FACTUR : 2.120 BR ID GE VOLT - : 15.00 PRE CAL - : 8.78 POST CAL - : 8.78 JACK FAC. : 1.5000 PSI/LB

LEVER ARM : NONE

CAL RES. : 100

LOADS-PSI	LOADS-POUNDS	DUTPUT-NY	VARIATION FROM	MEAN LINE
			MILLIVOLTS	POUNDS
3	0	0.000	-0.040	-4
0.0 0	0.00	0.000	0.040	4
270.00	185.00	1.960	-0.024	-2
543.00	360.00	3.980	-0-027	-2
613.00	540.00	6.020	-0.010	-1
1080.00	720.00	8.050	-0.003	-0
1350.03	966.06	10.100	0.024	2

MAXIMUM CALIBRATION LOAD: SGO POUNDS

F 060

BHC PROGRAM CCCR33 - RUN DATE: 06-18-76

FORSHAME. YOU FORGOT THE CAL RESIST. FOR CHANNELG4 LAB NO.10985AG1 HOWEVER I WILL SET IT TO 163 DHMS AND CONTINUE.

CALIBRATION SHEET LAB ENGINEER: WHITENER DATA ANALYST: MARY LCU WRIGHT LAB TECHNICIAN: KINSON

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO. : 10988AC1 CAL DATE: 6-16-76 SERIAL NO: NGNE P/N: 360-010-411-11 F103

PROJECT: 301 FLIGHT TEST

PART NAME: PITCH LINK

R/H RED

CHANNEL: 03 - AXIAL LDADING

CALIBRATE EQUIVALENT: 100K F UNIT CAL =

789 POUNDS 697 POUNDS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.12 BRIDGE VULT: 19.33 2.120 PRE CAL. : POST CAL. :

JACK FAC. : 1.5000 PSI/LB LEVER ARM : NONE

CAL RES. : 100

LOADS-PSI	LOADS-POUNDS	OUTPUT-MV	VARIATION FROM	MEAN LINE
5	0	0.000	-0.031	-3
6. 90	0.60	0.000	0.031	3
270.00	180.00	1.960	-0.015	-1
540.00	360.00	3.950	-0.032	-3
816.60	540.00	5.990	0.002	C
1080.00	724.60	7.990	-0.005	- 0
1350.00	903.53	10.020	6.019	2

F103

MAXIMUM CALIBRATION LOAD: 900 POUNDS

· None

BHC PROGRAM FCCR33 - RUN DATE: 06-21-76

***********	END	OF	108	*************
***********	END	OF	JOB	*****************
	5.40	~		

CALIBRATION SHEET
LAB ENGINEER: DAVID GLASS
DATA ANALYST: MARY LOU WRIGHT
LAB TECHNICIAN: JARVIES/BLISS

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10999AC1 CAL DATE: 6-12-76 SERIAL NO: 812-106 P/N: 300-040-180

PROJECT: 301 RUTOR MAST

4/4

PART NAME: ROTOR MAST

CHANNE : 03 - PERPENDICULAR BENDING, STATION 13.2

CALIBRATE EQUIVALENT: 100K = 26152 IN-LRS UNIT CAL = 29785 IN-LBS/MY/Y

BRIDGE RES.: 350.00
GAGE FACTOR: 2.130
BRIDGE YULT.: 10.00
PRE CAL.: 8.78
POST CAL.: 8.78

JACK FAC. : 0.6090 PSI/LB LEVER ARM : 12.000 IN.

CAL RES. : 100

LOADS-PSI	LOADS-IN-LRS	סטדףטד-אי	VARIATION FROM MILLIVOLTS	MEAN LINE
G	0	0-000	-0.031	-92
0.00	0.00	0.000	0.031	92
305.00	6009.85	1.980	-0.007	-20
610.00	12019.70	3.970	-0.034	-103
915-00	16029-55	C-000	-0.022	-66
1220.00	24039.41	8.060	0-020	60
1525.00	30049.26	10.070	0.012	37

MAXIMUM CALIBRATION LOAD: 30049 IN-LES

BHC PROGRAM FCCR33 - RUN DATE: 76-16-

B 140

CALIBRATION SHEET
'LAB ENGINEER: DAVID GLASS
DATA ANALYST: MARY LDU WRIGHT
LAB TECHNICIAN: JARVIES/BLISS

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 10999A02 CAL DATE: 6-12-75 SERIAL NO: B12-706 P/N: 300-040-160

PROJECT: 301 ROTOR MAST

PART NAME: ROTOR MAST

CHANNEL: 04 - PARALLEL BENDING. STATION 13.2

CALIBRATE EQUIVALENT: 100K = 26565 IN-LBS UNIT CAL = 30205 IN-LBS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.130 BRIDGE VOLT.: 10.00 PRE CAL.: 8.79 POST CAL.: 8.80 JACK FAC. : 0.6090 PSI/LB LEVER ARM : 12.000 IN.

CAL RES. : 100

· LDADS-PSI LDADS-IN-LBS **DUTPUT-MY** VARIATION FROM MEAN LINE MILLIVOLTS IN-LES 0-000 -0-021 -63 ů3 0.00 0.00 0.000 0.021 6009-85 1.980 305.00 0.011 34 12019.70 3-920 610.00 -0.038 -116 915, 20 18029.55 5-920 -0-928 85 24039-41 57 1220.00 7-960 0.022 1525.00 30049.20 9-940 37 0-012

MAXIMUM CALIBRATION LOAD: 30049 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 06-16-

B 141

CALIBRATION SHEET LAB ENGINEER: DAVID GLASS DATA ANALYST: MARY LOU WRIGHT LAB TECHNICIAN: JARVIES/BLISS

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 10999A03 CAL DATE: 6-12-76 SERIAL NO: 812-166 P/N: 300-040-160

PROJECT: 301 ROTOR MAST

PART NAME: ROTOR MAST

CHANNEL: 05 - TURSION, STATION 12.0

CALIBRATE EQUIVALENT: 100K = 48612 IN-LBS UNIT CAL = 54737 IN-LBS/MV/V

PRIDGE RES.: 350.00
GAGE FACTOR: 2.040
BRIDGE VOLT.: 10.01
PRE CAL.: 6.88
POST CAL.: 8.90

JACK FAC. : 0-6090 PSI/LB LEVER ARM : 42-000 IN.

CAL RES. : 100

LOADS-PS1	LOADS-IN-LBS	OUTPUT-MV	VARIATION FROM	REAN LINE
0	0	0.000	0.046	260
0-00	0.00	0.000	-0.048	-260
435.00	30000.00	5-540	0.006	33
870.00	60000.00	11-070	0.050	27 2
1305.00	90000.00	16.540	0.034	183
1740.00	120000.00	21-990	-0.003	-1 5
2175-00	150000.00	27.440	-0.039	-213

MAXIMUM CALIBRATION LOAD: 150000 IN-LBS

BHC PROGRAM FCCR33 - RUN DATE: 05-16-

M 143

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO.: 11621801 CAL DATE: 8-12-76 SERIAL NO: FM 0:4 P/N: 360-310-101-23

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND YOKE

CHANNEL: D3 - RED CHORD BENDING. STATION 9.875

CALIBRATE EQUIVALENT: 133K = 18537 POUNDS UNIT CAL = 21099 POUNDS/MV/V

BRIDGE RES.: 350.00 GAGE FACTOR: 2.683 BRIDGE VOLT.: 10.01 PRE CAL.: 8.78 POST CAL.: 8.78 JACK FAC. : 0,2670 PSI/L* LEVER ARN : 8.500 IN.

CAL RES. : 100

LOADS-PSI	LOADS-POUNDS	QUTPUT-MV	VARIATION FROM	MEAN LINE
C	c	0.000	-0.005	-10
0 • 0 0	0.0 0	0.00	0.005	10
325.00	9625.44	4.530	-0.032	-67
650.00	19250.38	9.120	-0. ひつき	-18
975.60	28676.31	13.740	0.045	9 5
1300.05	38501.75	18.300	0.038	81
1625.03	48127-19	22.78G	-0.048	-101

MAXIMUM CALIGRATION LOAD: 48127 POUNDS

BHC PROGRAM FCCR33 - RUN DATE: 08-23-"

B113

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 11021A CAL DATE: 8-12-70 SERIAL NO: FM 0: 4 P/N: 360-010-101-23

B112

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND YOKE

CHANNEL: 06 - RED BEAK BENDING, STATION 9.875

CALIBRATE EQUIVALENT: 100K = 26108 POUNDS

UNIT CAL = 29681 PCUNDS/MV/V

eridge res.: 350.00 GAGE FACTOR: 2.080 BRIDGE VOLT:: 10.01 2.C80 PRE CAL. : POST CAL. : 8.81 8.89

JACK FAC. : 0.6090 PSI/LB LEVER ARM : 8.500 IN.

CAL RES. : 100

LOADS-PSI	LOADS-POUNDS	OUTPUT-MV	VARIATION FRO	M MEAN LINE POUNDS
c	0	0.000	0.015	44
9.00	G.00	0.000	-0.015	-44
300.00	4187-19	1.420	-0.507	-21
600 •0 <i>5</i>	8374.38	2.860	0-021	61
900.00	12561.57	4-270	0-019	55
1263-65	16748.77	5.650	-0.6.4	-11
1500-CC	20935-96	7-070	-0.0:	-17
1860.00	25123.15	8.480	-0.0ud	-23

MAXIMUM CALIBRATION LOAD: 25123 POUNDS

BHC PROGRAM FCCR33 - RUN DATE: 08-23-

BIIZ

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO.: 1121403 CAL DATE: 8-12-73 SERIAL NO: FH G.4 P/N: 366-610-101-23

PROJECT: 3CI FLIGHT TEST

B 172

PART NAME: RIGHT HAND YOKE

CHARACLE 14 - WHY CHORD BENDING, STATION 0.875

CALIERATE EGUIVALENT: 100K = 18556 PEUNDS

UNIT CAL = 21135 PCUNDS/FV/V

BF 10 GE RES : 350.00 GAGE FACTOR : 2.086 BF JOGE VOLT: 10.0. PFD CAL: 8.78 FOUT CAL: 8.76

•

JACK FAC. : 0.2870 PSIZLU LEVER ARM : 8.500 IN.

CAL FES. : 123

OUTPUT-EV VARIATION PREP MEAN LINE FILLLY LLTS POURDS LOAD CHRSI LOADS-POUNDS 0.000 -1.01.A -47 300.00 853.00 970.00 J.07 Q. 530° 17 9635.44 4.510 -0.032 -0.110 0.028 -57 1925..89 26070.21 28031.75 9.070 -35 41 13.660 18.227 13. . 53 45127-19 -00114 -40

PARTIE CALIBRATION LOAD: 48127 FOUNDS

EHC PROGRAM FCCFCS - NUN DATE: 09-03-

LAB NO.: 11021474 CAL DATE: 8-12-76 SERIAL NO: FM (04 P/N: 300-010-101-23

B171

PROJECT: 301 FLIGHT TEST

PART NAME: RIGHT HAND YOKE

CHANNEL: U7 - GHT BEAM BENDING. STATION 9.875

CALIBRATE EQUIVALENT: 103K = 31118 PGUNDS UNIT CAL = 35477 POUNDS/NV/V

IDGE RES : 350.00 ## GF GE FACTOP : 2.080 ## IDGE VOLT : 10.21 PAJ CAL : 8.79 PLOT CAL : 8.77 JACK FAC. : 0.6000 PSI/LD LEVER ARM : 8.500 IN.

CAL RES. : 150

LGADS-PSI OUTPUT-NY LOADS-POUNDS VARIATION FROM HEAD LINE KILLIVULTS Fülnbs 6.00 200.00 500.00 0.000 C. 457 0.07 G - 0 € G -0.00 4187-19 1.260 0.011 4 1 240 8374.36 2.5.0 900.00 12.00.00 1800.00 0.049 17.2 12551.57 3.669 ٠, 16748.77 4.843 0.327 -4.114 2.935.96 5.900 15123-15 7.120 -0.150 1500.00.

MAXIMUR CALIBRATION LOAD: 25123 FOUNDS

BHC PROGRAM FCCR33 - RUN DATE: 03-23-

CALIBRATION SHEET LAB ENGINEER: BHITENER DATA ANALYST: MARY LCU BRIGHT LAB TECHNICIAN: GRESAK

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 11021A33 CAL DATE: 8-12-70 SERIAL NO: FM G74 P/N: 300-010-101-23

PROJECT: 301 FLIGHT TEST

B174

PART NAME: RIGHT HAND YUKE

CHANGEL: 15 - GAN CHURD BENDING. STATION 9.875

47、1、400年45年48年48年48年48年48年4

CALIDRATE EUDIVALENT: 10"K = 18882 PCUNDS
UNIT CAL = 21481 POUNDS/MV/V

表示力量中分词尤有形式法律非常标志和标准维维率等等

Princh Pes : 35, ...

GAGE FACTOR : 20.3.

Pre CALC: 8.5

POST CALC: 6.75

JACK FAC. : 0.2870 PSI/LB LEVER ARM : 8.533 IN.

CAL RES. : 190

LUADS-051	LUADE-PRUIDS	CUTPUT-KY	VARIATION FROM	
		0.000	MILLIVOLTS 0.043	PDUNUS 48
2.00		0.06.0	-0.043	- 5 2
328.,	9.20.44	4.542	C+116	35
5 \$ 0 • 0 ·	1420.003	9.630	0. 025	53
÷75.		13.510	0.025	-3
1.2	27.5 12.73	17.996	C-L24	ė:
1625.	4.127414	22.466	-6.647	-161

MAXIMUM CHLICKATION OF ACT | 46-27 HOUNDS

BHC PROGRAM FCCR33 - RUN DATE: CG-20-

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: 11021A70 CAL DATE: 8-12-70 SERIAL NO: FM 004 P/N: 300-010-1/1-23

PROJECT: 301 FLIGHT TEST

B173

PART NAME: RIGHT HAND YOKE

CHANNEL: 58 - GRN BEAM BENDING, STATION 9.875

CALIBRATE EQUIVALENT: 100K = 29394 PCUNDS UNIT CAL = 33569 PCUNDS/MV/V

JACK FAC. : 0.6090 PSIZES LEVER ARM : 8.500 IN.

CAL RES. : 100

EU-25-1:81	LCADS-POUNDS	OUTPUT-MY	VARIATION FACE	REAN LIKE
、	G	5.600	-4.6644	-134
• • .	L.C.	0. 000	6. 540	2 3 4
37 • .	(187.19	1.210	5.001	ಕಿ
	8374.58	2.420	-2 • (27	-125
* • • ● •	12551.57	೨•೮೭೦	-00.20	− 85
10	10740.77	4.94	-1. •0 ₹6	-45
•	20935-96	6.210	C+C+7	24
i •	25123.15	7.404	じゅじとり	< ల

I MAKE CONTEMPATION LOAD: 25123 POUNDS

BHC PROGRAM FCCR30 - RUN DATE: CC-LS-

```
LA8# 11027A-81
  eletî Hellî (ASK
               TYPE PULL =CH.RED Pos
                                                    DATA
CHER
               BRIDGE TYPE=CH.RED
                                          O(MV) OFFSET=
                                                            5130.5
                                         UNITY CAL= 21261.02234
               LAB-BR NUMBER=11037A-01
               BRIDGE VOLT= 6
               BRIDGE STA. = 9.875
                                                   100K CE=
   OF CHARLES
               OUTPUT (MV)
                            T LINEARITY(MUC1)
      0.0
                                            1.41
                  -1.410
                                    0.0
    9025.4
                   1.220
                                    0.1
   19250,8
                   3.950
                                    0.0
                                                                 ORIGINAL PAGE IS
                   6.670
                                    0.0
                                                                  OF POOR QUALITY
                   9.480
                                           2.7 3
                                   -Ø.0
                  12.120
                                    0.0
   33376.3
                   6.710
                                    0.0^{\circ}
     4525.4
                   1.270
                                    \theta. \theta
                                           9.48
                  -1.430
                                    0.0
               TYPE PULL =CH. HHITEPOS
                                                    DATA
⊈सहार
               BFIDGE TYPE=CH.WHITE
                                          O(MV) OFFSET= 30366.9
                                          UNITY CAL= 21022,02566√
               LAB-BR NUMBER=11027A-03
               BRIDGE VOLT= 6
                                                                       21108
               BRIDGE STA. = 9.875
                                                   100K CE=
LEATEGRADE
               OUTPUT/MV)
                               LINEARITY(%UC1)
                                                    2,39
2,70
    0.0
                 -8.590
                                        8,59
                                   0.0
    9525.4.
                  -5.980
                                           5.95
                                   -A.1
                                          2,61
   19250,8
                  -3.110
                                    0.0
   38876.3
                                          5 45
                  -0.468
                                    0.0
                   2.390
                                ... 0.0
                   5.090
                                0.0
                                         3.11 -
                  -0.410
                                    0.0
                  -5.950
                                  .: 0,1 2.39:
               TYPE PULL =CH.GREEN
                                                    DATA
CHSH
               BRIDGE TYPE=CH. GREEN --- ONAW) OFFSET=
                                                            8472.7
               LAB-BR NUMBER=11627A-05 UNITY CAL= 21843.22855 √
               BRIDGE VOLT= 6
               PRIDGE STA.≈ 9.875
                                                   100K CE=
                                                              19884.6
LOSDOINTLE
               OUTPUT(MV)
                               LINEARITY(%UC1)
                                           1.72
      ាត្ត
                  -0.950
                                    0.0
                                                         B195
    9635.4
                                   -0.0
                   1.720
                   4.310
                                    0.0
                   6.950
                                    0.0
                                                 12.23
                   9.680
                                   -0.O
                                                  9.68
                  12.230
                                    \theta. \theta
   23876.9
                   7.000
                                   -0.Q
                   1.679
                                    Q.Q
                  -0,960
                                    0.0
```

.

```
TYPE PULL =CH. REI Pas
                                                     DATA
                                                                            AB#11022A-
                ### BRIDGE TYPE=CH.RED O(MY) OFFSET= 5130.5

LAB-BR NUMBER=11027A-01 UNITY CAL= 21261.02234
CHAIL
                BRIDGE VOLT= 6
                BRIDGE STA. = 9.875
                                                    100K CE=
                                                                  18576.0
😉 ...(IRALB> - OUTPUT(MV)
                              THE LINEARITY (%UC1)
      0.0
                   -1.410
                                      0.0
    9625.4
                    1.220
                                      0.1
   19250,8
                    3.950
                                      0.0
   28876.3
                    6.670
                                      0.0
                    9.480
                                     -0.0
   48127.2
                  . 12.120
                                      0.0
   28876.3
                    6.710
                                      0.0
    9625.4
                    1.270
                                      0.0
                   -1.430
                TYPE PULL =CH. WHITE Pos
                                            O(MV) OFFSET= 30266.9
CHAN
                BRIDGE TYPE=CH.WHITE
                LAB-BR NUMBER=11027A-03
                                          UNITY CAL= 21022.02566
                BRIDGE VOLT= 6
                BRIDGE STA. = 9.875
                                                     100K CE=
                                                                  18367.2
LOAD(IN/LEY
                OUTPUT(MV)
                                LINEARITY(%UC1)
      0.0
                   -8.590
                                     0.0
                                           8.59
    9625.4 --
                   -5.980
                                     -0.1
                                            2,61
   19250.8
                   -3.110
                                      0.9
                                            5.98
   28876.3
                   -0.400
                                      0.0
   38501.7
                  . 2.390
                                    . 0.0
   48127.2
                    5.090
                                      ย์. ยิ
     876.3
                   -0.410
                                      0.0
    9625.4
                   -5.950
                                           2.39:
                               ::::...0,1
                TYPE PULL =CH.GREEN
                BRIDGE TYPE=CH.GREEN---- O(44V) OFFSET= 3472.7
LAB-BR NUMBER=11027A-05 UNITY CAL= 21843.22855
CHAH
                BRIDGE VOLT= 6
                BRIDGE STA. = 9.875
                                                                  19084.6
                                                    100K CE=
LORD(INVLEY
                OUTPUT(MV)
                                 LINEARITY(%UC1)
       0.0
                                              1.72
                                      0.0
                    -0.950
    9625.4
                                     -0.0
                     1.720
   19250.8
                    4.310
                                      0.0
   28876.3
                     6.950
                                      0.0
                                                     12.23
  38501.7
                                     -0.0
                     9.680
   48127.2
                    12.230
                                      0.0
   28876.3
                    7.000
                                     -0.0
     3625.4
                                      0.0
                     1.670
                                      0.0
                    -0.960
```

ORIGINAL PAGE IS OF POOR QUALITY

90	(Y(XUC1)	100l 100l DH OFFSE UNITY C	T= -18 BL= 306 K CE=	ORIGINA	L PAGE IS QUALITY	027A
NUMBER = 11027A-02 VOLT = 6 STA. = 9.375 MV) LINEARIT 90	(Y(XUC1)	DH TY CI	HL= 306 K CE= TH TH TH TH TH TH	26757.6 26757.6 93 ORIGINA OF POOI	PAGE IS QUALITY	3,9
VOLT = 6 STA. = 9.375 MV) LINEARIT 90	(Y(XUC1)	100l	TH TH TH TH TH TH	26757.8 93 ORIGINA OF POOI	L PAGE IS QUALITY	3,9
STA. = 9.375 MV) LINEARIT 90	2:42 2:42	DA DFFSE UNITY C	TH TH TH TH TH TH TH TH TH TH TH TH TH T	93 ORIGINA OF POOI	L PAGE IS R QUALITY	3,9
MV) LINEARIT 90	2:42 2:42	DA DFFSE UNITY C	TH TH TH TH TH TH TH TH TH TH TH TH TH T	93 ORIGINA OF POOI	L PAGE IS R QUALITY	3,9
90	2:42 2:42	DA DFFSE UNITY C	TH TH TH TH TH TH TH TH TH TH TH TH TH T	93 ORIGINA OF POOI	L PAGE IS R QUALITY	3,9
90	2:42 2:42	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI	L PAGE IS R QUALITY	3,9
70	2.57 2.57	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI	L PAGE IS R QUALITY	3.9
20 0.0 30 -0.0 40 0.0 20 -0.0 20 -0.0 20 0.0	2:31 2:31 2:31 2:31 2:31 2:31 2:31 3:41	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI	L PAGE IS R QUALITY	3.9
30 - 0.0 80 -0.0 40 0.0 20 -0.0 20 0.0 70 0.1 80 0.0 TYPE=BM. GREEN POLY NUMBER=11027A-06 VOLT= 6 STA.= 0.875 NV) LINEARIT 146- 0.0 150 0.1 150 0.1	0 (NV	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI	L PAGE IS R QUALITY	3.9
180	0 (NV	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI	L PAGE IS R QUALITY	3.9
140	2:55 -	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI	L PAGE IS R QUALITY	3.9
20	2:50 2:50 2:50 2:50 2:50 2:50 2:50 2:50	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI 5676.0 752.6997	2 V	3.9
40	2:37 -2:37 -2:37 -0:11V	. DA) OFFSE UNITY C 100	T= AL= 33	ORIGINA OF POOI 5676.0 752.6997	2 V	3.9
120 0.0 120 0.0 120 0.0 120 0.0 120	2:35 -2:35 -0:11V) OFFSE UNITY C 100	T= AL= 33	OF POO 5676.0 752.6997	2 V	3.9
10 0.0 10 10 10 10 10 10	0 CHV) OFFSE UNITY C 100	T= AL= 33	OF POO 5676.0 752.6997	2 V	3.9
NLL =BM. GREEN Pe TYPE=BM. GREEN NUMBER=11027A-06 VOLT= 6 STA.=-9.875 MV) LINEARIT 146	0 (HV)) OFFSE UNITY C 100	T= AL= 33	5676.0 752.6997	2 /	3.9
TYPE=BM.GREEN	0 (HV)) OFFSE UNITY C 100	T= AL= 33		1	3.9
TYPE=BM.GREEN	1) OFFSE UNITY C 100	T= AL= 33		1	3.9
TYPE=BM.GREEN	1) OFFSE UNITY C 100	T= AL= 33		1	3.9 !a/
NUMBER=11027A-06 VOLT= 6 STA.= 0.875 MV) LINEARIT 146- 0.6 150 0.1 160 0.6 160 0.6	77720017 3 1 1 1 1	UNITY C	AL= 33		1	3.9
VOLT= 6 STA.= 9.875 NV) LINEARIT 146 0.1 50 0.1 10 0.1 180 0.6	TYCZOCITY 3	160			1	3.9 3.6
NV) LINEARIY 140 0.0 150 0.1 100 0.0 10 0.0	3 1 1 3		K CE=	29490.	338	3.9
MV) LINEARIT 140- 0.0 150 0.1 10 0.1 180 0.0	3 1 1 3		K CE=	29490.	338	3.4
140 0.0 150 0.1 100 0.0 110 0.1 130 0.0	3 1 1 3		K LE=	29430.	338	إمر/
140 0.0 150 0.1 100 0.0 110 0.1 130 0.0	3 1 1 3	1.75			338	إو/ ا
750 0.1 500 0.0 210 0.1 930 0.0		2.35			-3 /	/ / 11
500 0.0 210 0.1 230 0.0	1 3	2.35			/	35/1
210 0.1 930 0.0 40 0.0	1	2.35				, g
980 0. 0 40 0. 0	9 9				DC	·
40 0 .0	<u> </u>		765			
		2-1-1/1		•		_
<u> 1487777 - 9.0</u>		الما المنطقة				
490 0. 0			 			-
188 - 0 .0		3.98 -	5.09			_
118 9.2	ž	77	0.75			
330 0.1	Ā- 	179	- 11.		· · · · · · · · · · · · · · · · · · ·	-
	<u> </u>	-,70	· · · · · ·			···
_						
JLL =BH. WHITE PO	,5		ITR			• .
TYPE-EM. WHITE.		<u>) OFFSE</u>	<u> = </u>	<u>2339.3</u> 552 7567		
NUMBER= <u>11027A-04</u>	<u>4</u>	UNITY C	:HL= 33	336.6301	•	
VOLTE 6						
SIA.= 9.875		105	K CE=	29126.	-	
	TUZ- 0116 4 N		/K UE =	• لاكتاب	v	
	TY(%UC1) o				2423	
990 0. 0 320 0. 1					34 01	
			\		3 26 13	
16 0 - 0. (320 0. (13	\	<u>// /</u>	
			UT2-		<u> </u>	-
isa s	<u> </u>		1.			
580 0.0			•			
36 6	9					
36 0 - 0. 1 120 - 0. 1	9 <u></u> 0					
36 9 0. 1 120 - 0. 1 580 0. 1	9 8 C					
366 0.1 120 - 0.1 580 0.1	ଡ଼ ଡ ଓ ଢ					
366 0.1 120 - 0.1 580 0.1 330 0.1	9 0 0 0 2					-
366 0.1 120 - 0.1 580 0.1 390 0.1	9 0 0 0 2					
366 0.1 120 - 0.1 580 0.1 330 0.1	9 0 0 0 2					-
	020	01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	580 0.6	580 6.6 47	36 90 _9	36 9 - 9. 9 - 9.0

ng c om com trans transcription that can be to a				e so 4	-	4:	ō i
•	TYPE PULL -EM.F	en e	I	PATA		1,30#11	027A 0
CH90 4 1	BRIDGE TYPE=BM.F	EI	0{#\V) OFFS	SET= -18	746.8		
	LAB-ER HUMBER=11	0279-02		<u>CAL= 30</u> 6	25 , 4558	3	
	BRIDGE VOLT= 6 BRIDGE STA.= 9.8	78				: /	
3	DRINGE SIN 7.0)	16	00K_CE=_	26757.	8 🗸	•
HALED	OUTPU1(MV)	INEARITY	%UC1)			,	-
0.0	3.690	0.0-	P.61				
41 <u>87.2</u> 8374.4	4.470 5.320	0.1	\$:42		93	0010/114	-
12561:6				_ 40	·	ORIGINAL	PAGE IS
16748.7	6.980	-0.0	511	_		OF POOR	QC:ALITY
20935.9	7.740	0.0	4.97		(
251 23.1 - 16748.7		-0.0 0.0	-6.95				-
8374.4	5.320	ŏ. ŏ-	2:50				
4187.3	4.470	0.1.	76				
<u>.6.0.</u>	3.690	0.0	2.77				-
er jag myr my mywdy y dy'r e y'r e me my Marianna	را برست بالمناس من دون همان من المناسب من المناسب المناسب المناسب المناسب المناسب المناسب المناسب المناسب						08
	TYPE PULL =Pn.	CREEH POS		DATA			_
CHAN TO T	BRITIGE TYPE=BM.		-0+11V>-0 FF		67 6.		
	LAB-BR_NUMBER=1	1 <u>027A-</u> 06_	UNITY	UHL= 337	52.699	<u></u>	• ·
	- BRIDGE VOLT= 6 - BRIDGE STA.= 9+	975					. 9
	Divided Office 11		1	00K CE=	29499.	1	(3'
FOUR (INVER).	001PUT(h7)	CINEUGITY	7.75			38	13.9
- 0.0 4187.2	1 750	0.0 0.1		0.10	1	3-	2513
8374.4	1.750 2.500	 -	2.52	B19	7		1
12561.64	3.210	0.1	4.35			<i>y</i> \	
749.7	3.980	0.0		1.40	•		
. 135.9 251 <u>22.1</u>	4.740 5.490		- 233	1			-
16748.7	- 3.998	0.0	3 98				
8374.4	2.500		1	5:19			_
41 <u>87.13</u> 0.0	1.710 1.030	<u>0.2</u> 0.8	-77 474 2-76	75			
	1.000	. U	276				
						,	 01:
-111 ⁷ e	TYPE PULL FUN. BRIDGE TYPEREN.	HITE POS	_O(MV)_OFF	DATA cct− 1	339.3		-
CHSN -5	LAB-BE NUMBUR=1		URITY	CHL= 333	36.6301	_	_
•	BRIDGE 7CE:- 6	102177 01					
	BRIDGE STA. = 9.	875		SSC CLE	73172		
LORP (IN LE)	<u> </u>	LIMERFITY	_	00K CE=	29126.	1	
LUMIKIN LD	-0,396	0.0	1000		•	242	-
4187.2	0.320	0.1				3 76 10	
<u> १७१ मन्स्</u>	1-100	9, §	B	192		1	
125 <u>61. 6</u> 16790. 7	1.828 2.58A	<u> </u>		7-2	-	<u>v </u>	-
20 055.9	3,000 — ——3,36⊌			-l.			_
251 <u>03.1</u>	4.120 -	0.0					
16748.7	2.580	0.0					
93 74 4107.0	<u>1.090</u> 0.290	<u> </u>					-
		<u> </u>					
in the state of th			-	A design a distance of the	Andrew States - Andrew		
,							
							-

Ak. 4 . . .

P. 18

KT. WING CHORD BENDING STA. 22.5

ORIGINAL PAGE IS OF POOR QUALITY

CHAN 1	BRINGE TYPE=	R= <u>11092A-1</u> 1 : 10	DATA DATA DATA DATA DATA DATA DATA DAT	3.4167
LORD(IN/LI 0.0 216999.3 173598.5 130198.7 86799.9 43399.7 21654.0	1.680 5.360 4.630 3.830 3.110 2.333 1.920	LINEARITY(%U 0.6 0.6 0.0 0.0 0.0 0.1 0.0	100K UE= 504 C1)	1797.7
CHAN 1	TYPE PULL #CHOR BRIDGE TYPE#CHOR LAB-BF HUNTEP#11 BRIDGE VOLT# 10 BRIDGE STS.# 22	T = 0	DA/A OFFSC:= -119704.0 HITY LOL: 596775.413	
LORD(INVLR) 0.0 21094.0 43399.7 65693.0 96798.9 108493.2	2.0304 2.340 2.730 3.120 3.510 3.080	6.6 6.6	100K CE= 516166.	1 1 m OK PA 1 - 76
100198.7 191992.0 173395.5 195292.0 216993.3	4.240 4.800 4.990 5.230 5.670	0.0 0.0 0.0 0.0 0.0	B 603	

RT. WING BEAM BENDING

STA, 22.5

ORIGINAL PAGE IS OF POOR QUALITY

CHAN 3	TYPE PULL =BEAM BRIDGE TYPE=BEAM LAB-BR NUMBER= <u>11092A-12</u>	DATA O(MV) OFFSET= 717237.4 UNITY CAL= 266669.7430
	BRIDGE VOLT= 6 BRIDGE STA.= 48.175	100K CE= 232467.8
LOAD(IN/LB)	OUTPUT(MÝ) LINEARITY	
1488250.0	16.530 0.0	(· · · · · · · · · · · · · · · · · · ·
1190500.0	11.110 0.0	
892950.0	4.520 0.0	46 832
595300.0	-2.350 0. 0	19: 83-1/E
297650.0	-9.440 0.0	3
148825.0	-13.190 0.0	·
0.0	-16.360 0.0	

				/
CHEM S	TYPE FOLL = BRIBGE TYPE= LHB-BR HUMBER BRIDGE YOLT=	SEAM 0(MV) F=11092A-12 U	DATA OPFSET= 735075.5 UNITY CAL= 262075.46 1	OK, Gele
	BFIDGE STA.=		100K CE= 229679.5	• •
"LORD(THZLS)	OUTPUT(MV)	LIMEARITY(%UC1)		
ប៉ុស្	-16.650	0.0		
148025.6	-13.690	0.0		
297650.0	-10.170	ଡି.ଡି	()	
446475.0	∸ଘ.୫୧୩	១.១	B600	
595300.6	3.170	0.0		
744125.0	0.030	-0.0		
892358.0	3.776	-0.0		
1041775.6	7.08	0.0		
1190606	10.000	0.0		
1331005.0	13.496	0.0		
64,88 <u>21</u> 0 0	15,006	0.0		·

RT. WING TORSION STA. 22.5

ORIGINAL PAGE IS OF POOR QUALITY

CHAN 4	TYPE POLL FT BRIDGE TYPE=TO LRE-TOP HUMBON BRIDGE STR.= O	94 37 34 0045 = <u>220 484-13</u> 6	DATA VX CFFSET≈ -75148. UMIT7 CAL=-(19738)	.003
L09D(16 L8) 478221.0 339430.3 237629.5 191564.9 95775.4 47897.7	00TP31 hv1 -2,768 -2.300 -1 840 -1.350 -0.050 -8.808 -4.338	LimeTrity(NUC1) 6.0 8.0 8.0 0.0 9.0 9.6 9.8	100% CE=-1049) Si ^{GN}	

Ata 4	THRE SELL A SRIFTS THRE LAI-UP LUMBE BRITTS (OL)A BRITTS FIR.	-360108 0 -72.692 6- 13 -7	PATA (MY) OFFSET= -C5 ORITY CAL=-110 100% (E=-1	0178.04
73 (19) LB 6 (6) 47887 (7) 88787 (4)	007807 0879 -01867 -0176 -31770	LISESPITA-Des G.Ə G.Ə G.Ə		N REVERSED
: 324 0.1 1915 0.9 2887 1.8 2026.28.6	មារី ព្រៃក់ពី មានប្រទេស ការប្រើស ការប្រភពិ	6.6 6.8 6.8		m606
00002.00 000020 400002.1 478201.0	-3.30 -3.700 -3.500 -3.750	0.0 0.0 0.0 0.0		

```
ENTER CHANNEL # PPROJECT=PROJECT HAT. ACTUATOR FLIGHT TEST
PROJECT=3014-47 LAT. ACTUATOR FLIGHT TEST
DATE=P12-15-76
                                                                           LAB#11366A-01
DATE=12-15-76 R/A
PART TITLE=9301 LAT ACTUATOR
PART TITLE=301 LAT ACTUATOR
                                                   ORIGINAL PAGE IS
PART NUMBER=241002590
PART NUMBEF=41002590
                                                   OF POOR QUALITY
SERIAL NUMBER=001
SERIAL NUMBER=001
 BRIDGE VOLTAGE = 96.0
                                                                        BR. STA
CH # BRIDGE TYPE
                                   LAB-EF #
                                                      BR. Y
INPUT CHAN #91
                 :BRIDGE TYPE=PAXIAL Pos
         *BRINGE STATION=00
CH 1
         LAB-BR NUMBER=0011366A-01
CH 1
                                 · 11366A-01
       AXIAL
INPUT CHAN #PENTER CHANNEL # 984
ENTER CHANNEL # 91
ENTER CHARNEL # 9LOAD NUMBER #90
PRESS THE 'PRT ALL' KEY
TYPE PULLOADIAL
IS THIS A COUPLETHO WILL LOAD BE READ FROM LOAD CELLTONO
LOAD STATION=20
INPUT LOAD UNITS=9LBS
# OF LOADS =29
INPUT JACK FACTORS1.5
LOAD 1
LOAD 3
           =0600
          =?1200
          =?1800
LOAD 4
LOAD 5
          =?2400
LOAD 6
          =?3000
 CHAN
            0.0
                     400.0
                                 800.9
                                           1200.0
                                                       1600.0
                                                                   2000.0
          LBS
                      LBS
                                LBS
                                                         LBS
                                                                     LBS
                                             LBS
                                5.6
         4.6
                      5.1
                                            6.1
                                                           6.6
                                                                       7.0
LOAD 7.
          =918001
LOAD 3
           =?600
LOAD 9
           =?ពូ
                     400.0
                                 9.9
                                                                       0.6
 CHRN 1200.0
                                             ø.ø
                                                          0.0
                                              LBS .
          LBS
                     LBS
                                  LBS
                                                         LBS
                                                                     LBS
            6.1
                                   4.6
                                                           0.0 .
SELECT NEXT TASK
ERROP 6
CHAN 1 BRIDGE TYPE=ANIAL O(MV) OFFSET= -3819.4

LAB-BR NUMBEF=11366A-01

BRIDGE VOLT= 6

BRIDGE STA.= 0

100K CE= 4331
                                                  UNITY CAL= 4957.67992
                                                          100K CE= 4331.6
LOAD (LES)
             OUTPUT/NY)
                                 LINEARITY
        Ū. Ü
                      4.600
                                                                         F188
      400.0
                      5.120
                                  0K
                                                        +2.42
                      5.600
      800.0
                                  OF'
     1200.0
                      €.0⊚0
                                  ŌΚ
     1600.0
                      6.570
                                  OF
     2000.0
                      7.920
                                  Ûk
     1200.0
                                  OK
                      6.030
      400.0
                      5.110
                                  ũł.
                      4.620
```

SELECT NEXT TASK ENTER CHANNEL # 01

```
30164 LAT.ACTUATOR FLIGHT TEST
                                                                 F 163 WARM 3 & LAB# 11367A-01
     .2-15-76 4/4
TITLE=301 A LATERIAL ACTUATOR
 ART NUMBER=41602120
 SERIAL NUMBER=601
 CH # BRIDGE TYPE
1 AXIAL
AD NUMBER = 20
                                 LAB-BR #
<u>11367A-01</u>
                                                        BR.Y
                                                                             BR.STA
                                                        6 .
 PRESS THE 'PRT ALL' KEY
 TYPE PULL?AXIAL
IS THIS A COUPLEONO
                                                             ORIGINAL PAGE IS
 WILL LOAD BE READ FROM LOAD CELL??NO
                                                              OF POOR QUALITY
LOAD STATION=20
 INPUT LOAD UNITS=?LBS
 # OF LOADS =?9
 INPUT JACK FACTOR?1.5
LOAD 1 = 20
LOAD 2 = 2600
LOAD 3 = 21200
LOAD 4 = 21800
 LOSD 5 = ?2400
LOAD 6 = 23000

CHAN 0.0 400.0 800.0 1200.0 1600.0 2000.0

LBS LBS LBS LBS LBS LBS LBS
  1 3.7 4.1 4.5 4.9 5.3 5.8
LOAD 7 = 21800

'LOAD 8 = 2600

LOAD 9 = 20

'MAN 1200.0 400.0 0.0 0.0 0.0

LBS LBS LBS LBS LBS
  1 .4.9 4.1 3.7 0.0 0.0 0.0
 SELECT NEXT TASK
TYPE PULL =AXIAL Pos.

CHAN 1 BRIDGE TYPE=AXIAL D(MV) OFFSET= -3510.3

LAB-BR NUMBER=11367A-01 UNITY CAL= 5748.083149

BRIDGE STA.= 0
LOAD(LBS) OUTPUT(MV) LINEARITY

6.0 3.670 OK

400.0 4.110 OK

800.0 4.520 OK

1200.0 4.920 OK

1600.0 5.330 OK

2000.0 5.760 OK

1200.0 4.890 OK

400.0 4.050 OK

0.0 3.660 OK
                                                             100K CE= 5022.2
                                                                            F163
```

SELECT NEWT TASK ENTER CHANNEL # 28V F TR CHANNEL # 91

```
ENTER CHANNEL # ?1
                                                   within 32
                                                                    LAB#11378A-01
ENTER CHRINNEL # PPROJECT=9301
PROJECT=301 Tube ASSY (EVELLE) F/A FLIGHT
DATE=212-15-76
DATE=12-15-76
                                                     ORICINAL PAGE IS
PART TITLE=2301
PART TITLE=301
                                                     OF HOOR QUALITY
PART NUMBER=9301-301-053-49
PART NUMBER=301-301-053-49
SERIAL NUMBER=AN A
SERIAL NUMBÉP=R/A
 BRIDGE VOLTAGE =96.0
CH # BFIRGE TYPE
                               LAB-BR #
                                                 BR.Y
                                                                 BR. STA
INPUT CHAN $21
CH 1
               *BRIDGE TYPE=?AXIAL
CH 1
        *BRIDGE STATION=90
CH 1
        LAB-BR NUMBER=9911378A-01
                               11379A-01
      AXIAL
 1
INPUT CHER #PENTER CHANNEL # 1979
ERTER CHANNEL # ?1
ENTER CHARREL # PLOAD NUMBER = 90
PRESS THE 'PRT ALL' KEY
TYPE PULLSAXIAL
IS THIS A COUPLE MUO
WILL LOAD BE READ FROM LOAD CELL??NO
LOAD STATION=00
INFUT LOAD UNITS=CLBS
# OF LOADS =09
INPUT JACK FACTORS1.5
LORD 1
LOAD 2
LOAD 3
         =?558
LOAD 4
          =0825
          =?1100
LOAD 5
          =91375
LOAD 6
 CHAN
          9.9
                   183.3
                             366.7
                                        550.0
                                                  733.3
         LES
                   LBS
                              LBS
                                         LBS
                                                    LBS
  1
          4.3
                     5.2
LOAD 7
          =?825
          =?275
LOAD 8
          =28
LOAD 9
 CHAN
        550.0
                  183.3
                              0.0
                                          0.0
                                                    0.0
                                                               8.0
         LBS
                   LES
                              LES
                                         LBS
                                                    LBS
                                                              LBS
  1
               TYPE PULL =AMIAL Pos
                                                     DATH
               BPIDGE TYPE=ACIAL
CHAN
                                           O(MY) OFFSET=
               LAB-BR NUMBER=11378A-01
BRIDGE VOLT= 6
BRIDGE STA.= 0
                                           UNITY CAL= 1105.403070
                                                    100K CE=
                                                                  965.8
LOAD(LES)
             OUTPUTONS
                             LINEARITY
       0.0
                   4,270
                              0K
     183.3
                   5.186
                              OK:
     366.7
                   €,2411
                              OI:
     550.0
                   7.220
                              OI.
     733.3
                   8.200
                              OE:
     916.7
                              OI.
     550.6
                              0!0
     183.3
                   5.200
                              Oi.
```

What does beneatly Or, mean

SELECT NEXT TASK BY ERPOR 6

ENTER CHMORE # 750

```
PROJECT-1201 FLIGHT TEST
                                                             F 313 LAB# 11493A - 0
 PROJECT=30: FLIGHT TEST
#HTE=93-3-77
 DATE=3-3-77
 PART TITLE="MSIN LAND/GEAR ACT L/N
 PART TITLE-MAIN LAND GEAR ACT L.H.
 POST NUMBER:0340-100-/
    I NUMBER=340-100-1
 SEPIAL NUMBER=OH-101
 SEFIAL NUMBER=H-101
 BRIDGE VOLTAGE =96.0
 CH # BRIDGE TYPE
                                LAB-BF #
                                                 Br.V
                                                                   BR.STA
 IMPUT CHER #91
1 ANIAL
                               114938-01 E
                                                                    Ũ
 INPUT CHAN #PENTER CHARREL # PBV
ENTER CHARREL # PLOAD NUMBER #10
 PRESS THE 'FAT BLL' KEY
 TYPE PULLPALIFI
 IS THIS A COUPLEMIO
 WILL LOAD BE READ FROM LOAD CELL??YES
                                                         ORIGINAL PAGE IS
                                                     OF POOR QUALITY
 LOAD CELL'S UNIT-CAL =012291
 INPUT 2ND LOAD CELLIS UNIT-CALPO
 LOAD STATION=10
 INPUT LOAD UNITS=9LBS
 # OF LOADS = ??
 IS THE LOAD CONDITION ZERO?
LOAD 1 =-20.485 LBS?1
109D 2 = 20.485 LBS?2
. D 3 = 2355.77 LBS?3
LOAD 4 = 4516.4 LBS?4
LOAD 5 = 7354.11 LBS?5
LOAD 6 = 9894.25 LBS?6
CHAN 0.0 2376.3 4375.4 7333.6 9914.7 13372.9
LBS LPS LBS LBS LBS
          3.3
                    4.2 5.6 5.9 6.6 7.5
 .OAD 7 ≈ 13373.9 LBS^7
CHAN 81.9 0.0 244.1 375.5 305.2 1.8
LBS LPS LBS LBS LBS LBS
  1 3.4 4.5 2.2 2.2 2.1 2.3
 SELECT NEXT TALK
                TYPE PULL =AMIAL DATA

BRIDGE TYPE=AMIAL 0:MV: OFFSET= -10061.34:
LAB-BR NUMBER=1:499A-01 UNITY CAL= 19832.57528
 CHAH 1
                 PRINCE WOLTH E
                 BRIDGE STA. = 0
                                                      100K CE= 15755.2
LOAD(LES: OUTPUT MY) LINEAPITY 0.0 3.330 OK
     2376.3
                     4.150
                   4.988 0F
5.010 0F
6.520 0F
7.450 0F
3.350 0F
                               91
     4875.4
                                                        LT.
     7333..
                                              (4.1159)
                                               MC = [(12372.9 - (10061.7) x6.0] - 18 343.6 h
```

```
F363 LAB#11494A
PROJECT=300 FLICHT TEST
DOTE: 3-3 27
PART TITLE THATH LAND GEHR AUT ROH
PART HUMBER = 540 - 100 - 2
SERIAL NUMBER=H-161
CH & BRIDGE TYPE
                         LAS-BR #
                                      BR.V
                                                     BR.STA
     AXIAL
                          114946-01
   AL
is this a coupleano
NILL LOAD BE READ FROM LOAD CELL??YES
LOAD CELL'S UNIT-CAL=01229:
INPUT 2ND LOAD CELL'S UNIT-CALCA
LOAD STATION=20
                                                ORIGINAL PAGE IS
INPUT LOAD UNITS=2LB 5
                                                OF POOR QUALITY
# OF LOADS =?7
IS THE LOAD CONDITION DEPOCYES
LOAD 1 = 20.405 LD371
LOAD 2 = 9 LB372
      = 2273.83 LB903
= 4793.49 LB904
LOAD 3
LOAD 4
       = 7393,63
LOAD 5
                  LB305
       = 8994.91 LBS0LOAD NUMBER =05
= 8951.94 LBS05
LOAD 6
LOAD 5
       3.1 3.8
                                          6.3
                        4.6
                                5.4
 1 3.0 4.5 2.2 2.2 2.1 2.3
SELECT NEXT TASK
            TYPE FULL =AMIAL PATA
BRIDGE TYPE=AMIAL OWNY) OFFSET= +9571.2
LSE-BR MUMBER=11494A-01 UNITY CAL= 18626.993
             BRILGE STA. = 0
                                        100% CE= 16274.€
RT
   4814.0
                        010
               4.649
                                   3.97
                        Ũ!
                5.439
                        Ūŧ.
   9853.3
                5.260
  12311.4
                7.040
                         ΟŁ.
                                           (3.9657)
                3.949
```

Christian Co. Co.

CALIBRATION SHEET
LAB ENGINEER: DARDEN
DATA ANALYST: MARY LOU WRIGHT
LAB TECHNICIAN: GOSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 00000000 CAL DATE: //8/2 SERIAL NO: 14672 P/N: PL722TC150-350

11812

P 3 2 4 ° 7

PROJECT: GENERAL USE

PART NAME: PRESSURE TRANSDUCER
CHANNEL: G1 - STATHAM 150 P.S.1.

CALIERATE EQUIVALENT: _ 10CK = 34.078 PSI /MV/V

BRIDGE RES. : 329.70 GAGE FACTOR : N/A

SKIDGE VOLTO: 5.02 PRE CALO: 4.37

PRE CAL.: 4.37
POST CAL.: 4.40

CAL RES. : 100

JACK FAC. : NONE

LEVER ARM :000.000 IN.

LDADS-PSI	LOADS-PSI	OUTPUT-XV	VARIATION FROM	MEAN LINE
			MILLIVOLTS	PSI
0	0	0.000	0-023	178
16.83	16003.86	1.29v	~ 0•€20	~153
24,35	20000.00	2.590	-0.006	- 50
30 .0 0	30003.00	3.890	0.07	53
43.00	40000.00	5.190	6.020	156
. 50.00	50000-60	6.480	0.023	182
6i •00	56000.60	7.780	0.037	285
7c.00	70000.00	9.070	€.640	310
80.00	05.00388	10.369	0. 043	335
93.00	90000.00	11-640	0-036	283
100.00	100000.60	12.925	0.036	231
110.60	115000.60	14.266	0.023	178
125.66	120000.60	15.460	0.016	126
146-00	140000.00	18.920	-0.517	-134
150.00	150000.30	19.220	-G.U44	-342
140.50	149000.50	16.019	-G.627	-212
120.00	120000.00	15.450	-0.014	-107
100.00	160000-60	12.880	-0.010	-80
8700	60000 _• 00	10.360	~.017	-131
66-60	65000.00	7.720	-0.023	-182
40.00	40005.60	5.133	-0.040	-316
20.00	20000.00	2.540	~ ₹.056	-4 33

CALIGRATION SHEET
LAB ENGINEER: DARDEN
DATA ANALYST: MARY LOU WRIGHT
LAB TECHNICIAN: GOSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY,

LAB NO. : 000000000 CAL DATE: SERIAL NO: 11813 P/N: PL722TC150-350

P 324 OK.

PROJECT: GENERAL USE

PART NAME: PRESSURE TRANSCUCER
CHANNEL: 01 - STATHAM 150 P.S.I.

CALIERATE EQUIVALENT: 100K = 42801 PSI UNIT CAL = 40755 PSI /MV/V

BRIDGE RES.: 330.00
GAUE FACTUR: N/A
LDIGGE VOLT:: 5.02
PR: CAL:: 5.25
POST CAL:: 5.29

. **₹**

JACK FAC. : NONE LEVER ARM : OGO.OOO IN.

LCADS-FSI	LOADS-PSI	OUTPUT-HV	VARIATION FRO	OM MEAN LINE
			MILLIVOLTS	PSI
Ş	0	C-000	-0.513	-103
13,50	10000.00	1.220	C.002	17
25.50	25666.00	2.450	0.001	ó
30.d0	30000-00	3.680	-0.000	-4
جن <u>۽ ڏي</u>	40000.00	4.920	0.608	67
50.19	50000.00	6-150	0.007	57
60.00	60000-00	7.400	C-026	209
76.00	70000-60	8.630	0.624	199
85.63	83000.00	9.860	0.023	188
90.50	90000-00	11.090	U.C22	173
160.63	100000-50	12.320	0.021	163 .
110.60	110000.00	13.560	S-529	233
120.60	120000.00	14.780	0.018	147
130.00	130000-00	16.000	6.007	55
140.60	140000.60	17.210	-6.614	-117
150.60	153000-50	18.430	-0.026	-20 9
141.00	140000.00	17.200	-0.024	-199
120.00	12000-00	14.750	-û.G12	-97
101.00	16000.00	12.290	-0.039	- 76
8 Sev 5	8000Q -0 0	9.820	-0.017	-137
الأناء والأناء	60000 .00	7.350	-G.ú24	-197
4001.0	47500.50	4.890	-0.02 2	-) 77
20.00	20000.00	2.410	-0.039	-315

CALIGRATION SHEET
LAG ENGINEER: CARDEN
DATA ANALYST: LINDA
LAB TECHNICIAN: T. GOSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : NONE CAL DATE: 4-18-76' SERIAL NO: 11814 P/N: PL722TC-150-350

10-14-76

PROJECT: GENERAL USE

PART NAME: PRESSURE TRANSCUCER
CHANNEL: 01 - STATHAM 0-150 Pasalaba

P 323

CALIERATE EQUIVALENT: 100K = 38148 PSI UNIT CAL = 39194 PSI /MV/V

BRIDGE RES.: 244.10
GACE FACTEN: N/A
BRIDGE VULT.: 5.02
PRE CAL.: 4.30
PEST CAL.: 4.92

JACK FAC. : NONE LEVER ARM :000-000 IN.

LOADS-PSI	LOADS-PSI	OUTPUT-MV	VARIATION FROM	
			MILLIVOLTS	P: 1
C	0	0.000	-0 • 1 <i>3</i> %	-2075
≥ 0.600	10000-00	1.530	. 0.077	60£
20.00	2000 0-00	2.470	0.646	333
50.C0	30.00.00	3.700	0 • C25	203
40 . 00	40000-00	5.000	0.015	126
50.00	50000.00	5.250	0.015	116
60.00	6020020	7.560	C-314	112
70,00	70003-00	8-650	0.024	165
£5.00	60000,60	10-139	0.003	10.1
00400	90000 cc	21-420	6.033	25.5
100.00	100000.00	12.700	6.052	25.0
116.00	110650.00	13.950	C.032	246
\$20 • t à	120000.00	15.0270	0.643	320
326-00	130000160	15-540	6.930	237
145.60	146600.00	17.810	0.086	155
150.30	75 000C • 00	19.050	0.000	72
140.00	140000.00	17.760	-0.010	-79
100.00	120000-00	15.100	+0.000	-305
100-00	100000.00	12.600	-0.07s	-000
ីខ្លី ន ់ទីម៉ា	004043	10.020	-0.057	-67
50.C.	6000000	7-450	-0 • (°. &	-747
40.00	40000.00	6.550	-0.6:5	-661
20.60	20000.00	2.300	-0.344	-540

CALIBRATION SHEET LAB ENGINEER: DARDEN DATA ANALYST: MARY LOU WRIGHT LAB TECHNICIAN: GOSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO. : 000000000 CAL DATE: SERIAL NO: 11815 P/N: PL722TC150-356 10-14-76

PROJECT: GENERAL USE

P 325

PART NAME: PRESSURE TRANSLUCER

CHANNEL: 01 - STATHAM 150 P.S.I.

李本本本本公公本人 化水中心中中水水平水水中中

CALIBRATE EQUIVALENT: 100K = 33298 PSI

UNIT CAL = 39116 PSI /MV/V

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CRIDGE RES. : 334.53 GAGE FACTOR : N/A BRIDGE VULT.: 5.32

PEE CAL. : 4.24 POST CaL. : 4.30 4.30 JACK FAC. : NONE LEVER ARM #000-000 IN-

LOADS-PSI	LOADS-PSI	CUTPUT-MV	VARIATION FROM	MEAN LIM
5	Ć.	0.000	0.009	75
10.13	10000.00	1.290	-0.001	-10
20.00	20000.00	2.580	C.506	49
30.00	36660.66	2.670	ü-i14	109
45.05	400000.00	5.163	0.022	1.57
50.00	50000.00	6.450	5.029	225
60.00	660000-11	7.740	£.037	288
7	7:000.10	9.03u	0.045	3+8
80.00	80000.10	10.315	0.42	320
95.00	90000.53	11.590	0.040	311
100.00	100100.1	12.870	C-038	293
115.00	110600.00	14.150	0.035	275
125.00	120000.7.2	15.420	4.623	179
130.00	1324.5.5.	10.679	3.011	82
140.60	140000.00	17.550	-0.012	-92
1500	19:0000	19-210	-0.354	-266
145.00	140000000	17.500	~ 0.032	-243
125	126000"	15.77	-0.027	-211
100.00	40000000	12.519	-6.032	-253
£co	86669.00	10.035	-1. (33	-294
See. i	61.00.11	7.500	-0.043	-235 -235
45.75	452.5.	5.00	-0.053	-455
2	26.000.	2.510	+/**b4	-461

CALIBRATION SHEET
LAB ENGINEER: CARDEN
DATA ANALYST: LINDA
LAB TECHNICIAN: T. GOSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY

LAB NO.: NONE CAL DATE: 4-15-5-SERIAL NO: 11820 P/N: PL722TC-1 10-14-76

PROJECT: GENERAL USE

PART NAME: PRESSURE TRANSDUCER
CHANNEL: 01 - STATHAM 0-18-0 P-S-1-D-

CALIBRATE EQUIVALENT: 100K = 1241068 PSI UNIT CAL = 1303966 PSI MV/V

未未来水水水水水水水水水水水水水水水水水水水水水水

BRIDGE RFE : 320.40
GACE FACTOR: N/A
ERIDGE VOLT: 5.00
PRE CAL: 4.70
PDST CAL: 4.79

JACK FAC. : NONE LEVER ARM :000.000 IN.

CAL RES. : 100

LOADS-951	LOADS-PS1	רטקדטח-אי	VARIATION FROM MILLIVOLTS	MEAN LINE FSI
0	c	0.000	0.059	15266
500.00	500000.00	1.980	-0-062	-525
1050468	10000000+00	÷01a	0.004	1049
1500.00	1506500.00	5.€60	0.020	5265
2000 - 00	2,000,000.00	7.760	0.027	6291
2500.00	2500000a-00	5.710	0.073	6516
2000-03	3000000 €00	11.530	0.009	7543
2500.00	35:6:00-90	13.550	0.025	65.59
4000 . 10	4000000 . 00	15.470	0-622	5596
4500.00	45000000.00	17.070	-0.602	-577
5006.200	5000000°40	75.380	-0.0:0	-4149
4000-63	4000000-40	15.6619	-0.038	-0000
200000	20400000400	23.570	-0.631	~ 3052
2000.00	20000000.00	7720	-0.623	-6105
1000.00	1000000400	3.860	- - -	-11555

MAXIMUM CALIFICATION LOADISONGASS FOI

PHC PROGRAM FCCROS - RUN DATE: 04-02-75

Hall block

ORIGINAL PAGE IS OF POOR QUALITY LAB NO.: NONE CAL DATE: 4-10-78 SERIAL NO: 11821 P/N: PL722TC-1

PROJECT: GENERAL USE

P 153

PART NAME: PRESSURE TRANSDUCER
CHANNEL: GI - STATHAM 0-150 P-S-I-D-

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CALISMATE EQUIVALENT: 100K = 1261A62 PST UNIT CAL = 1291663 PSI /MY/V

PRIDGE RUS. : 223.10
GACE FACTOR : N/
BRIDGE VOLT: 5.02
PRE CAL. : 4.72
PUST CAL. : 4.52

JACK FAC. I NONE LEVER ARM 1000-000 IN-

CAL RES. : 100

LOADS-PS1	FBWC-541	CUTPUT-MY	VARIATION FROM MILLIVOLTS	MEAN LINE
O	0	0.000	0.098	25155
560.00	50000000000000	2.(10	-0. 000	-7641
1000.00	1000 0.00	3.550	-0.002	-523
1500.00	11:11 10:00	5.950	0.026	6544
2000-00	200113240 3	7.010	0.044	11237
2500.00	1 26% 23.00	S • 60	0.651	13256
3000.00	#####################################	11.210	0.059	15276
2000.00	1500 050 400	13.770	0.037	9569
4000.00	121 00 000	15.650	0.015	3365
4500.00	43.65. 54.660	17.550	-0.627	-6998
5600.60	14 D 1 (a 3 D	19-450	-0.009	-15120
4000.03	47,000,000	\$t +600	- 6.035	- 90000
35(0)(0)		2: -7-3	-0+0;1	ーンアンア
2000.00	25 mm - 6 - 30	7.140	-0.026	-676.4
1000.00	7 100116 -00	3.480	-0.052	-15970

MAXIMUM CALIFORNIA LONDISCODOS PST

BHC PROGRAM FCCR33 - RUN DATE: 04-22-75

Arm 12 C

CALIERATIUN SHEET LAU ENGINIER: GARDEN DATA ANALYST: LINDA LAU TECHNICIAN: T. GOSCINSKI ORIGINAL PAGE IS OF POOR QUALITY

LAB NO.: NONE
CAL DATE: 4-18-75
SERIAL NO: 14624
P/N: PL722TC-1
10-14-76
LIBL2

PROJECT: GENERAL USE

. (

PART NAME! PRESSURE TRANSDUCER
CHANNEL: 01 - STATHAM 0-150 P.S.I.D.

P149

CALIERATE EQUIVALENT: 100K = 1191,890 PSI UNIT CAL = 1307,041 PSI

/MY/V

DRIDGE RES. 321.80
GAGE FACTOR: N/A
LITEGE VOLY: 5.02
PRU CAL: 4.65
POST CAL: 4.60

JACK FAC. : NONE LEVER ARM 1000-000 IN.

CAL RES. : 100

LOADS-PSI	LOADS-PSI	OUTPUT-MV	VARIATION	
			MILLIVOLTS	PSI
0	0	0.000	0-134	34957
500.00	500000.00	2.000	-0.053	-1391)
1000.00	1000000-00	2.970	- 0.603	- 662
1500.00	1500000.00	5.940	0.048	12546
21.51.60	2000000.00	7-030	0.4009	17963
2452 .00	25600000.00	9•E20	0.050	22375
t c co - c c	3000000.00	11.730	0.081	20973
3556-00	35000000.00	13.660	D-C91	23782
4.000.00	40000000.00	15-530	0.042	10059
4.000.00	4500000-00	17.390	-0-017	-4459
6000 -00	5000000.00	19-240	~0•036	ーをごしじゃ
4300.00	4000000.00	15-400	-C. U=3	-22564
1060.00	2000000.00	11.630	-C.Sis	-5070
1001-00	2000000-00	7.750	-0-0-1	-10905
1000.00	1000000.00	3.220	-0.093	-24129

MAYIRUM CALIBRATION LOAD: 5000,000 PSI

RHC PROGRAM FCCRD3 - RUN DATE: 04-22-75

MAN PLUSSES

CALIBRATION SHEET
LAB ENGINEER: DARDEN
DATA ARALYST: MARY LOU WRIGHT
LAB TECHNICIAN: GOSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 0000000000 JAL DATE: SERIAL NO: <u>15934</u> P/N: PM6TC-2.5-350

P504

PROJECT: GENERAL USE

PART MAILE: PRESSURE TRANSDULER CHAINEL: 01 - STATHAM 2.5 P.S.I.D.

STATIC PARELLE

CALICIATE EQUIVALENT: 100K = .498 PSI UNIT CAL = .565 PSI /MV/V

水水水水水水水水水水水水水水水水水水水水水水水水水

95 FOCE HPG. : 353.40 GAUL FACTE : K/A

30100: Ville: 3.04 Pri Come: 4.64 Foul thee: 4.64 JACK FAC. : NOME LEVER ARM :000.000 Th.

CAL RES. # 100

L0/10-231	LOADS-PSI	OUTPUT-M	MARIATION FROM	SOUND LINE
			LLLIVULTS	r \$ 1
i	ĵ	0.000	-0.010	-2
0	50J . 00	4.430	-0.012	- 1
1	1000.50	8.876	-3-650	- 5
1	1503.00	13.320	-3.057	-4
2.00	2000.00	17.763	- 3 - 05 5	~ ⊙
2.2.	2500.00	22.200	-0.073	∞ €.
2.04	2000200	17.750	-0.005	-7
1.01	1990-63	15.510	-0.047	ー ジ
1.00	1000.60	⊍. 860	-0.040	-4
U . € 10	500.00	4.430	-0.012	-1
 € J	200.00	4.450	G. QUS	1 .
1.0.	1000.00	8.910	0.010	1
1. 400	1500.00	13.390	0 . 033	4
2.00	2000-00	17.570	0.055	6
2.57	2500.00	22.356	0.077	S
2. UJ	2000.00	17.580	0.005	7
1.19	1500.00	13.410	0.J33	C i
1.00	155550	8.540	6.04C	5
6.10	500.00	4.470	3. 023	ڬ

CALIBRATION SHEET LAB ENGINEER: DARDEN
DATA ANALYST: MARY LOU HRIGHT LAB TECHNICIAN: GCSCINSKI

ORIGINAL PAGE IS OF POOR QUALITY LAB NO. : 0000000000 CAL DATE: SERIAL NO: 15935 P/N: PHOTC-2.5-350 10-14-76 P505

PROJECT: GENERAL USE

PART NAME: PRESSURE TRANSDUCER

CHANNEL: 01 - STATMAH 2.5 P.S.I.D.

CALIBRATE EQUIVALENT: 100K = .439 PSI Utill CAL = .557 PS1 /MY/V

BRIDGE RES. : 354.40

GASE FACTOR : N/A BEIDGE VOLT .: 5.04

PRE CAL.: 4.43 POST CAL.: 4.43

JACK FACE : NONE

LEYER ARK :000.000 IN.

LU4DS-PSI	LOADS-PSI	GUT PUT-KV	VARIATION FROM BEAN LINE			
			MILLIVOLTS	281		
Q	Û	0.000	-0.057	-4		
0. 50	5 0 0.03	4.480	-0.010	-1		
1.00	1000.00	9.000	-0.017	-2		
1.50	1580.00	15.500	-0.044	-5		
2.00	2035.33	16.010	-0.061	-7		
2 . 5j	2503.00	22.923	-0.072	~~		
2.05	2603.00	18.020	-0.051	~ ∪		
1.50	1500.00	13.510	-2.554	- 4		
1.00	1006.00	9.310	-0.037	-1		
0.50	500 . 00	4.493	-0.000	- 3		
6.53	5Cu. 80	4.450	-3.486	~ 3 .		
1.03	103/1.00	9.050	0.013	1		
1.50	1500.00	15.510	0. 025	3		
2.06	2000.00	16.120	0.049	>		
2.50	2500.60	22.600	Úoúsě	ç		
2.00	2000.36	13.130	C• 659	Ċ		
1.55	1503.73	13.393	0.646	5,		
1.00	1000.60	5.050	0.053	4		
0.50	500.00	4.45C	-0.333	- 3		

		Calibration Da	ta Sheet	Poor Date Calibrated:				
Description _	TOGOS OU	SEPT BIR	·SP-ET	Date C	nlibrate			
Model. Type	5421c			1	9-1 6;	1-76	,	
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4. 305	170	3.900				:		
4.9/2	180	3.603	3.603					
5-445	190	3.800			ORIGINA OF POO	L PAGE I	S. K	
6-071	200	= 999	3. 90,0				- ,	
6.730	210	4-197	<u>.</u>					
7.403	220	4-395	14.295					
9.///	232	4.593						
8.854	-2 11/2	4.791	2.79/					
9-632	250	52991						
						1		

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5' | Rev665

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8 7 7	2.7.7.	(mv/G)	CAL		3/6		A	c vert		2	005
3	DATE STATE	(S) 7.507.	>	U.C. II	v.c. = 7.3						
6 5482 100 100	FIGURE CALIBRATIO FANGE ATC	NAL SENS	CAL	S S	7.723 0						
7 6 5	ACCELERONET PAR	N N N	SHUNT	100K C.E. =	100% C.E." =						(XIEKIZ)
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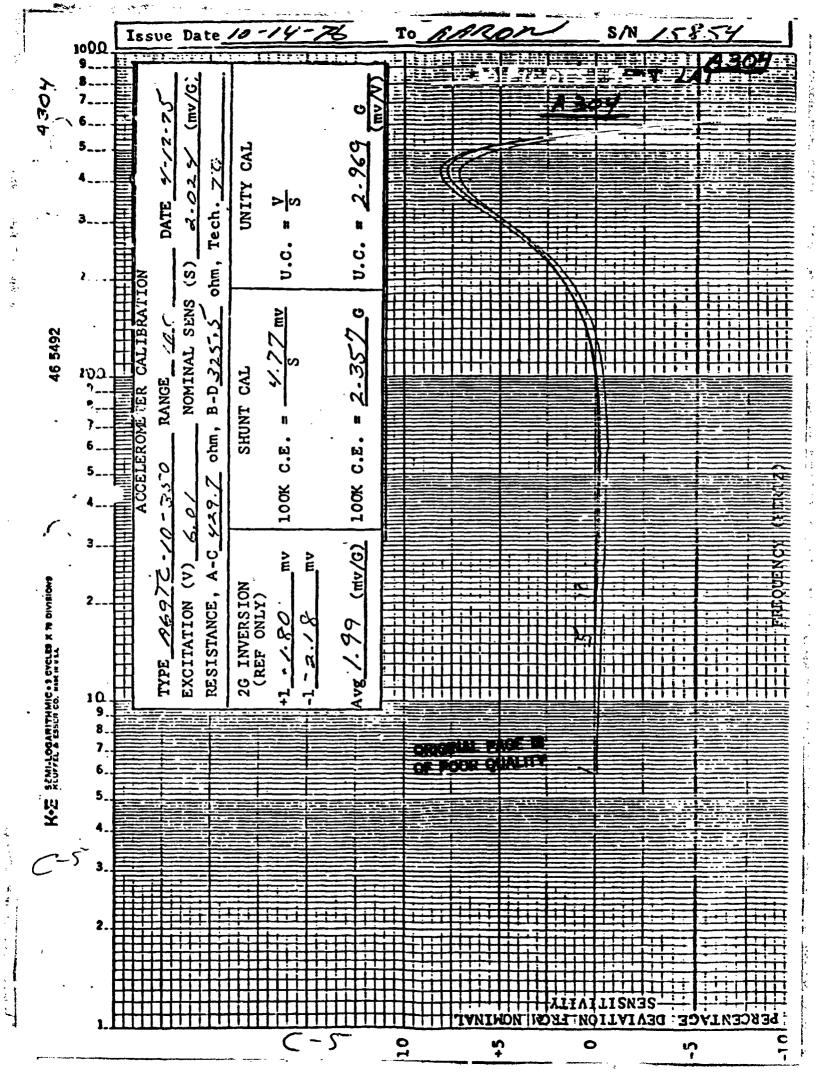
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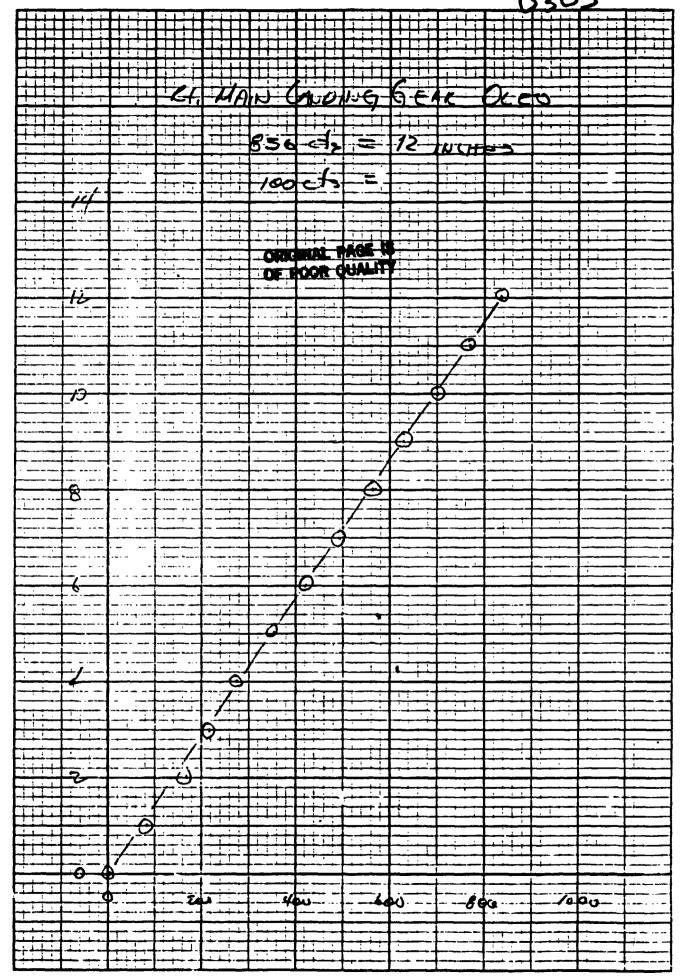
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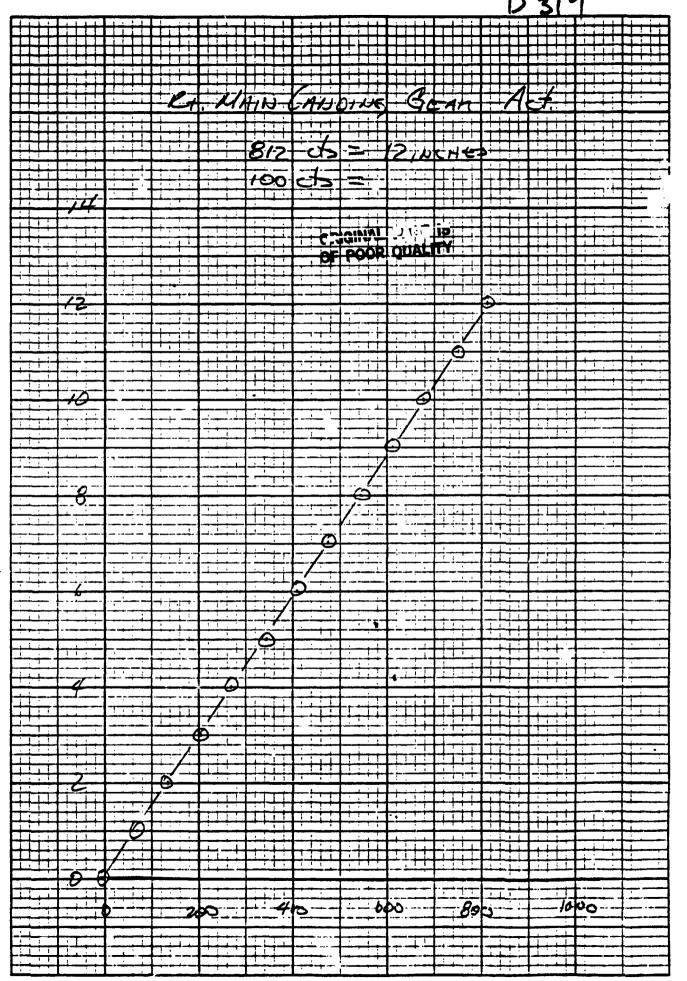
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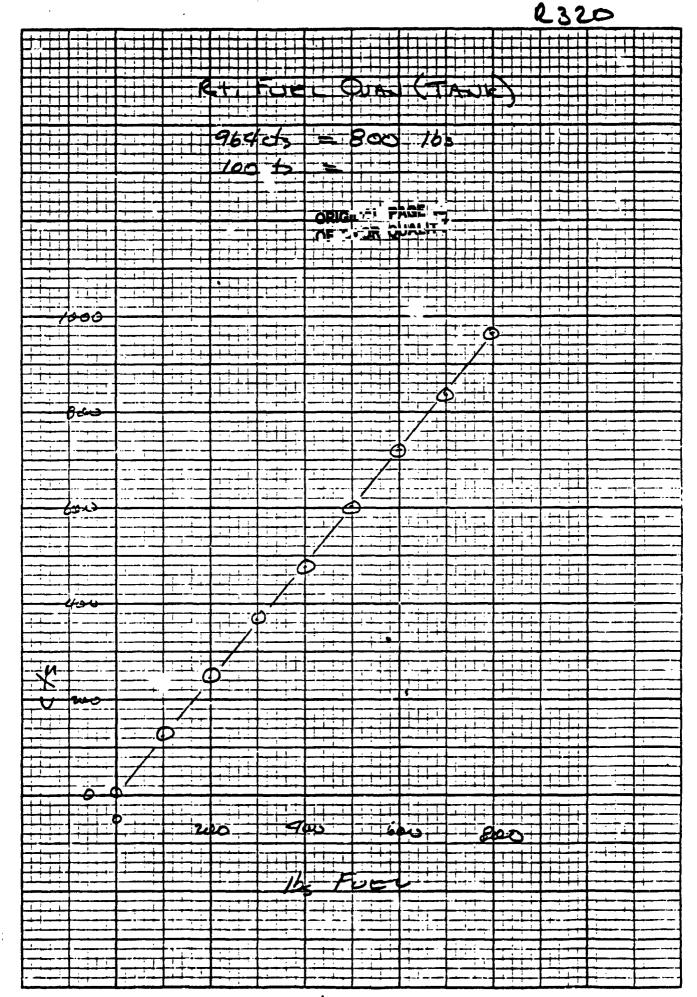


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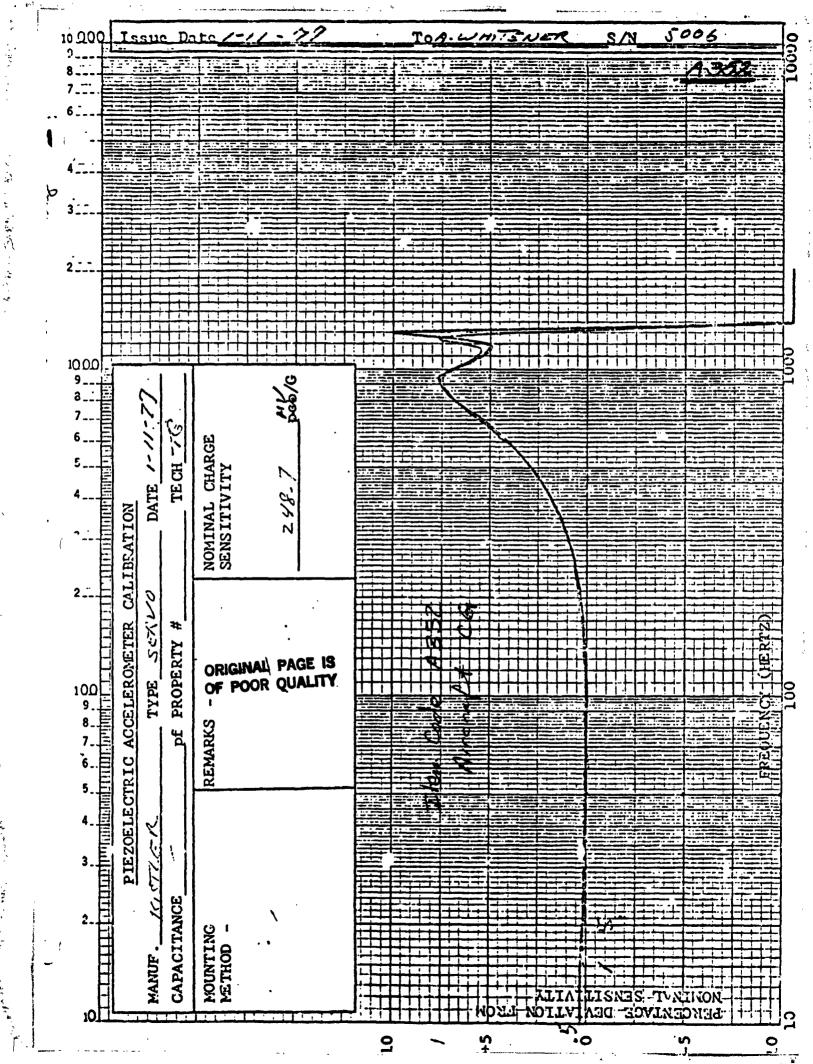
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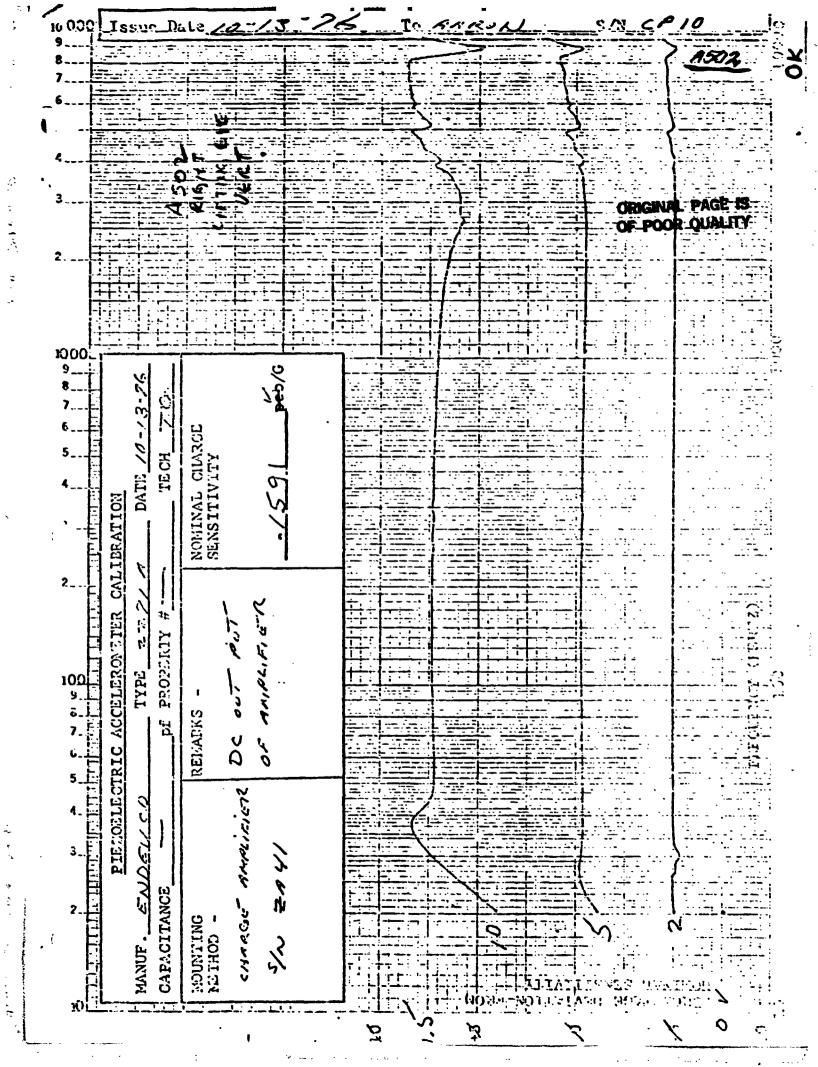
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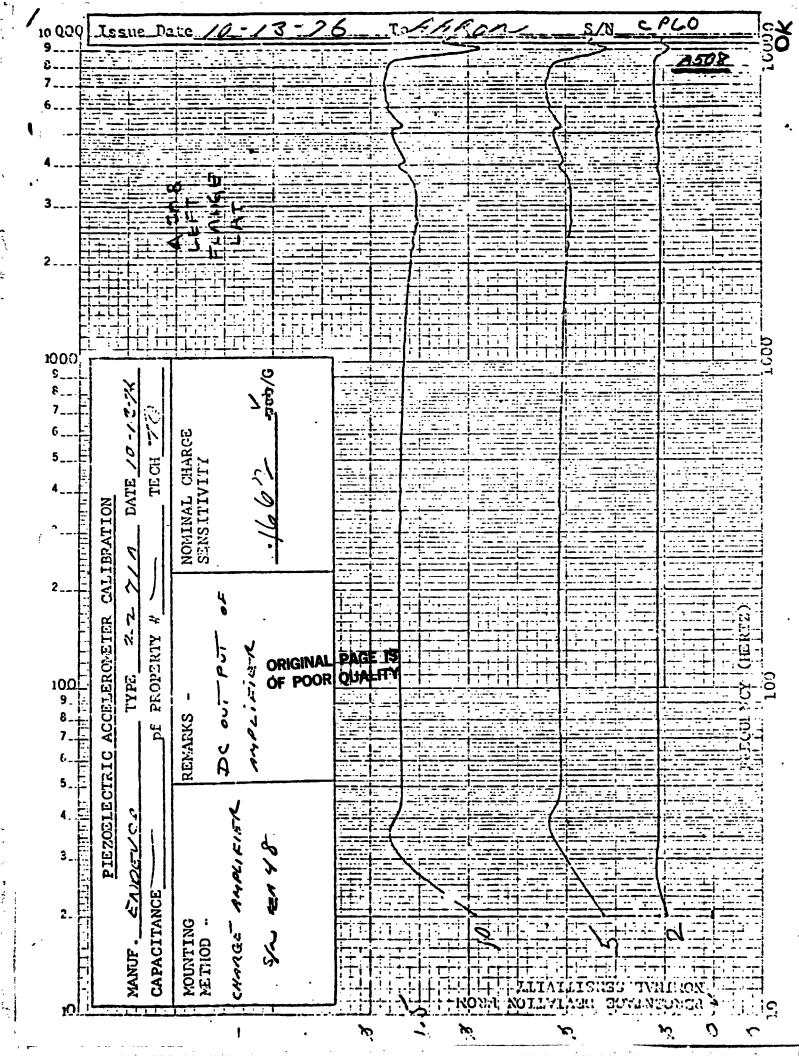
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